



FORGED AUTOMOTIVE PRODUCTS

PISTONS · CONRODS · BOLTS · GASKETS

2009



Wossner[®]
HIGH PERFORMANCE PISTONS
RESEARCH & DEVELOPMENT
Manufacturer of forged pistons



We are the innovative specialists for high performance pistons and conrods. Our products are to be found in engines operating at the highest levels of motor sport, in competition and, of course, in everyday use – in fact, anywhere where longevity and operational noise are important factors.

Wössner products are the source of the superior power behind the success of well known motor sport teams at national and international race meets.

Picture frontpage: 9ff Porsche Cayman Twin-Turbo, the world fastest bio-ethanol powered car: 336,3 km/h (209 mph).

WÖSSNER PRODUCTS

Cometic Gaskets

The involvement in motorsports racing led to the development of breakthrough technologies which are now applied to every Cometic gasket. Cometic supplies gaskets for a variety of hi-performance motorsports markets.



ARP Rod Bolts

Connecting rod bolts are one of the main important fasteners in any engine. ARP is one of the world leader in racing fastener technology.

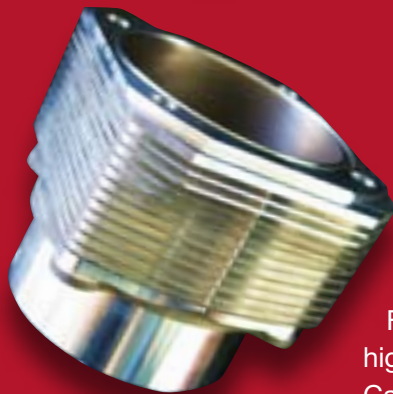


Pistons

Forged high performance pistons for various applications in nearly all engine types for racing and street use (Material: 4032-T6, 2618-T6).

Conrods

Forged high performance steel (40 CrNiMoA) conrods, H-beam with ARP-bolts, optimal balanced, suitable for all common models.



Cylinders

Forged cylinders for Porsche, high quality Nickel Silicone Carbide Plating.

Special pistons

For special application, size from 35 mm to 220 mm diameter.



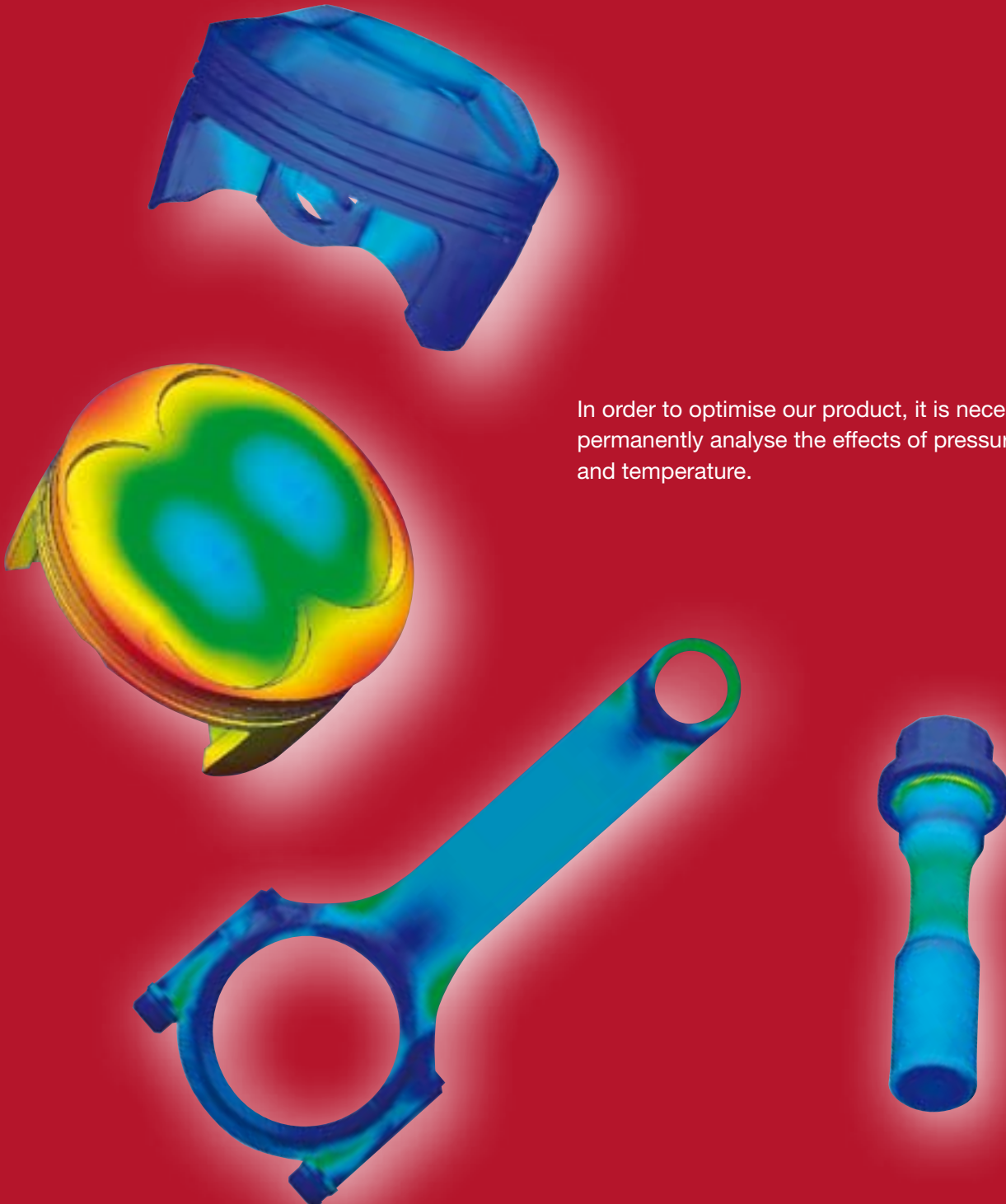
Sleeves

Various materials with high quality Nickel Silicone Carbide Plating.



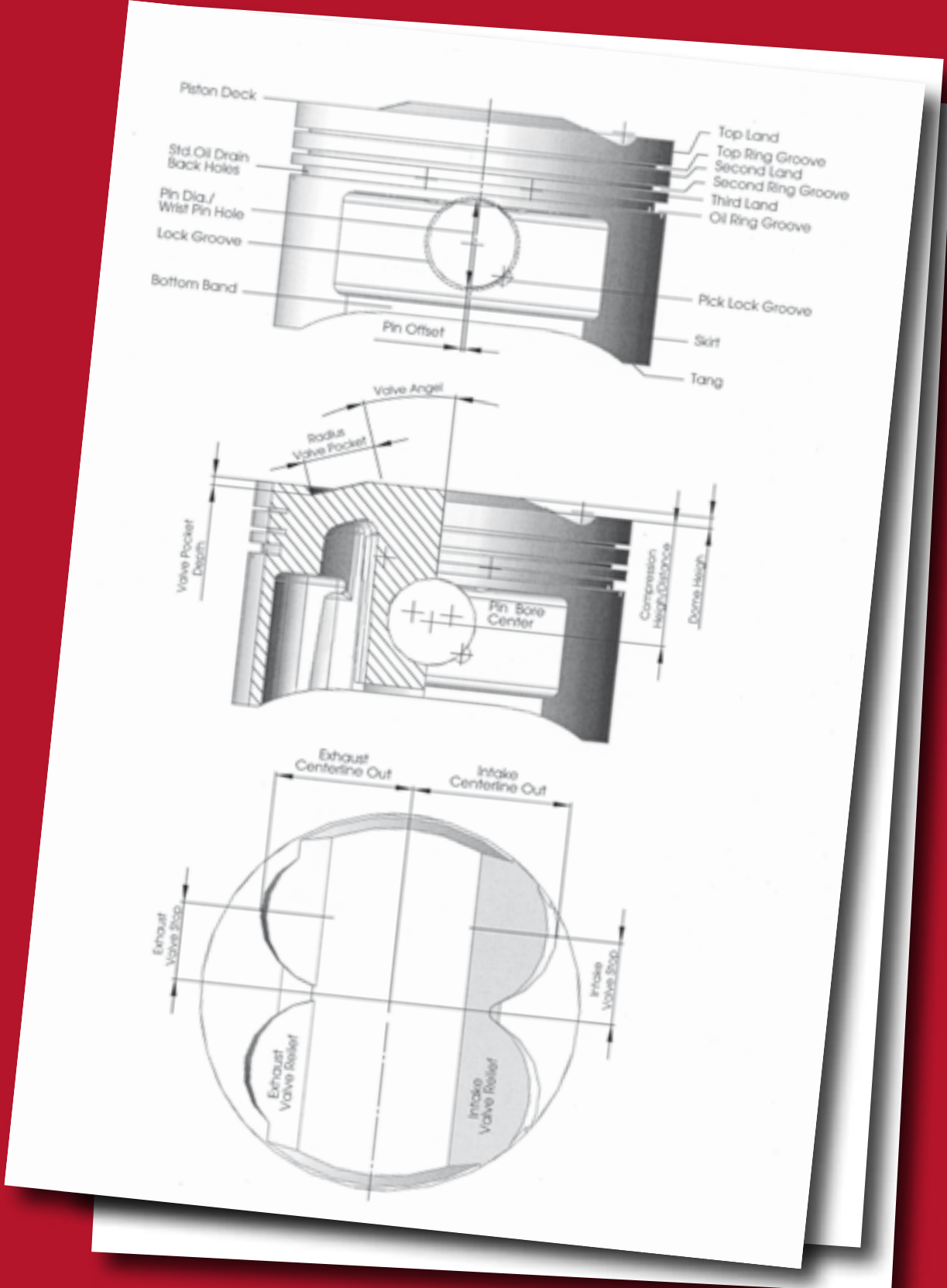
PISTONS

PERFORMANCE



In order to optimise our product, it is necessary to permanently analyse the effects of pressure, motion and temperature.

PISTON TERMINOLOGY



FORGED AUTOMOTIVE PRODUCTS

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WARRANTY DISCLAIMER

Due to the nature of performance applications, the parts in this kit are sold without any express warranty or any implied warranty of merchantability or fitness for a particular purpose. Wössner GmbH shall not, under any circumstances, be liable for any special, incidental or consequential damages, including, but not limited to damage, or loss of profits or revenue, cost of purchased or replacement goods, or claims of customers of the purchaser, which may arise and/or result from sale, installation or use of these parts. Installation of these parts could adversely affect the vehicle manufacturer's warranty coverage. Pistons are useable for racing only.

ALFA ROMEO



Model	156 1.8 Ltr. 16V Twin Spark	145, 146, 155, 156, 166, GTV, Spider 2.0 Ltr. 16V	145, 146, 155, 156, 166, GTV, Spider 2.0 Ltr. 16V Turbo	147, 156 2.0 Ltr. 16V Twin Spark
Kit Part No.	K9274DA K9274D050 K9274D100	K9142DA K9142D050 K9142D100	K9143DA K9143D050 K9143D100	K9236DA K9236D050 K9236D100
Engine typ	188 A	M647CA.19.T	M647CA.19.T	-
Bore size	82.00 82.50 83.00	83.00 83.50 84.00	83.00 83.50 84.00	83.00 83.50 84.00
Stroke	82.70	91	91	91
Displacement	1746ccm	1970ccm	1970ccm	1970ccm
Wössner Comp. ratio	9.0:1	12.6:1	8.5:1	12.6:1
OE Comp. ratio	10.3:1	10.0:1	10.0:1	10.0:1
Comp. height	-	32	32	31.50
Rod lenght	-	145mm	145mm	145mm
Block height	-	323.01mm	323.01mm	323.01mm
Dome volume	-	+2.6cm ³	-4cm ³	-
Gasket thickness	-	1.60mm	-	0.50mm
Valves per Cylinder	4	4	4	4
Cylinder No.	4	4	4	4
Piston weight in grams	-	310	302	305
Ring Part No.	820XTY 825XTY 830XTY	830XSY 835XSY 840XSY	830XTY 835XTY 840XTY	830XSY 835XSY 840XSY
Pin Part No.	-	WP952	WP961	WP952
Clip Part No.	-	CW20	CW20	CW20
Kit Price Code	A	A	A	A

ALFA ROMEO



	147 1.6 Ltr. 16V	147 1.6 Ltr. 16V Turbo	164, 75 3.0 Ltr. V6 12V (185PS)
Model			
Kit Part No.	K9138DA K9138D050 K9138D100	K9139DA K9139D050 K9139D100	K9144DA K9144D050 K9144D100
Engine typ	M654FA.15V	M654FA.15V	195-20
Bore size	82.00 82.50 83.00	82.00 82.50 83.00	93.00 93.50 94.00
Stroke	75.65	75.65	72.6
Displacement	1598ccm	1598ccm	2959ccm
Wössner Comp. ratio	11.5:1	8.0:1	11.5:1
OE Comp. ratio	10.5:1	10.5:1	9.5:1
Comp. height	28.50	28.50	33
Rod length	-	-	-
Block height	-	-	-
Dome volume	-	-4.21cm ³	+34cm ³
Gasket thickness	-	-	-
Valves per Cylinder	4	4	2
Cylinder No.	4	4	6
Piston weight in grams	294	-	434
Ring Part No.	820XSY 825XSY 830XSY	820XTY 825XTY 830XTY	930XSY 935XSY 940XSY
Pin Part No.	WP952	WP952	WP917
Clip Part No.	CW20	CW20	CW22
Kit Price Code	A	A	G

AUDI



	A4, A6 1.8 Ltr. 20V Turbo (150PS)	A6, S4 2.7 Ltr. Bi-Turbo	RS4 2.7 Ltr. V6 Bi-Turbo	Coupe S2
Model				
Kit Part No.	K9075DA K9075D050 K9075D100 K9075D150 - -	K9091DA K9091D050 K9091D100 - - -	K9215DA K9215D050 K9215D100 - - -	K9201DA K9201D050 K9201D100 K9201D150 K9201D200 K9201D250
Engine typ	AEB, AGU	AGB, ASJ	AZR, ASJ, AZF	3B, ABY
Bore size	81.00 81.50 82.00 82.50 - -	81.00 81.50 82.00 - - -	81.00 81.50 82.00 - - -	81.00 81.50 82.00 82.50 83.00 83.50
Stroke	86.4	86.4	86.4	86.4
Displacement	1781ccm	2669ccm	2669ccm	2224ccm
Wössner Comp. ratio	8.5:1	8.5:1	8.0:1	8.0:1
OE Comp. ratio	9.5:1	9.3:1	9.0:1	10.0:1
Comp. height	32.7	30.7	30.7	33.4
Rod lenght	144mm	154mm	154mm	144mm
Block height	220mm	-	-	220mm
Dome volume	-7cm ³	-	-15cm ³	-12.3cm ³
Gasket thickness	-	-	-	-
Valves per Cylinder	5	4	5	4
Cylinder No.	4	6	6	5
Piston weight in grams	282	278	284	306
Ring Part No.	810XTY 815XTY 820XTY 825XTY - -	810XTY 815XTY 820XTY - - -	810XTY 815XTY 820XTY - - -	810XTY 815XTY 820XTY 825XTY 830XTY 835XTY
Pin Part No.	WP961	WP934	WP992	WP961
Clip Part No.	CW20	CW21	CW21	CW20
Kit Price Code	A	G	G	C

AUDI



	A3, TT 1.8 Ltr. 20V Turbo (180PS)	S3, TT 1.8 Ltr. 20V Turbo (225PS)	S3, TT 1.8 Ltr. 20V Turbo (225PS)
Model			
Kit Part No.	K9145DA K9145D050 K9145D100 K9145D150	K9075DA K9075D050 K9075D100 K9075D150	K9271DA K9271D050 K9271D100 K9271D150
Engine typ	AJQ, APP, ARY, AUQ	APX, BAM	APX, BAM
Bore size	81.00 81.50 82.00 82.50	81.00 81.50 82.00 82.50	81.00 81.50 82.00 82.50
Stroke	86.4	86.4	86.4
Displacement	1781ccm	1781ccm	1781ccm
Wössner Comp. ratio	9.5:1	8.5:1	9.4:1
OE Comp. ratio	9.5:1	8.9:1	8.9:1
Comp. height	32.7	32.7	32.7
Rod length	144mm	144mm	144mm
Block height	220mm	220mm	220mm
Dome volume	6.3cm ³	-13cm ³	-6cm ³
Gasket thickness	-	1.65	1.65
Valves per Cylinder	5	5	5
Cylinder No.	4	4	4
Piston weight in grams	292	282	280
Ring Part No.	810XTY 815XTY 820XTY 825XTY	810XTY 815XTY 820XTY 825XTY	810XTY 815XTY 820XTY 825XTY
Pin Part No.	WP926	WP961	WP961
Clip Part No.	CW19	CW20	CW20
Kit Price Code	A	A	A

AUDI



Model	A3, S3, A4 2.0 Ltr. T FSI Turbo	1.8 Ltr. 20V None Turbo (Racing Version)	2.0 Ltr. 20V None Turbo (Racing Version)
Kit Part No.	K9213DA K9213D050 K9213D100	K9269D150 K9269D170 -	K9270DA K9270D020 -
Engine typ	AXX	AEB, AGN, ALT	AEB, AGN, ALT
Bore size	82.50 83.00 83.50	82.50 82.70 -	82.50 82.70 -
Stroke	92.8	86.4	92.8
Displacement	1998ccm	1846ccm	1983ccm
Wössner Comp. ratio	9.2:1	12.3:1	12.3:1
OE Comp. ratio	10.5:1	8.9:1	8.9:1
Comp. height	29.5	32.70	29.50
Rod length	144mm	144mm	144mm
Block height	-	220mm	220mm
Dome volume	-5.38cm ³	10.7cm ³	10.7cm ³
Gasket thickness	-	1.65	-
Valves per Cylinder	4	5	4
Cylinder No.	4	4	4
Piston weight in grams	334	310	295
Ring Part No.	825XTY 830XTY 835XTY	825XSY 827XSY -	825XSY 827XSY -
Pin Part No.	WP961	WP952	WP952
Clip Part No.	CW20	CW20	CW20
Kit Price Code	A	A	A

BMW



	M3 2.3 Ltr. 16V	M3 2.3 Ltr. 16V OEM Comp. ratio	M3 2.5 Ltr. 16V Sport EVO DTM	M3 2.5 Ltr. 16V Sport EVO Berg
Model				
Kit Part No.	K9024D020 K9024D040 K9024D060 K9024D080 -	K9277D020 K9277D040 K9277D060 K9277D080 -	K9007D028 K9007D034 K9007D044 K9007D050 K9007D080	K9008D028 K9008D034 K9008D044 K9008D050 K9008D080
Engine typ	S14/B23	S14/B23	S14/B23	S14/B23
Bore size	93.60* 93.80* 94.00 94.20* -	93.60* 93.80* 94.00 94.20* -	95.28* 95.34* 95.44* 95.50 95.80*	95.28* 95.34* 95.44* 95.50 95.80*
Stroke	84	84	88	88
Displacement	2312ccm	2312ccm	2510ccm	2510ccm
Wössner Comp. ratio	13.0:1	10.8:1	12.8:1	12.8:1
OE Comp. ratio	10.5:1	10.5:1	12.8:1	12.8:1
Comp. height	32	32	30.6	25
Rod length	144mm	144mm	144mm	149.70mm
Block height	-	-	-	-
Dome volume	-	-6.9cm ³	+0.5cm ³	-
Gasket thickness	-	-	-	-
Valves per Cylinder	4	4	4	4
Cylinder No.	4	4	4	4
Piston weight in grams	360	357	345	314
Ring Part No.	940XSY* 940XSY* 940XSY 945XSY* -	940XSY* 940XSY* 940XSY* 945XSY* -	955XSY* 955XSY* 955XSY* 955XSY 960XSY*	955XSY* 955XSY* 955XSY* 955XSY 960XSY*
Pin Part No.	WP917	WP917	WP998	WP909
Clip Part No.	CW22	CW22	CW22	CW22
Kit Price Code	A	A	B	B

* Rings need to be shortened / Ringe müssen gekürzt werden

BMW



Model	M3 3.0 Ltr. 24V 2-Ring-Version	M3 3.0 Ltr. 24V US Version	M3 3.2 Ltr. 24V 3-Ring-Version	M3 3.2 Ltr. 24V US Version	M3 3.25 Ltr. 24V
Kit Part No.	K9043DA K9043D050 K9043D075 K9043D100	K9224DA K9224D050 K9224D100 -	K9038DA K9038D025 K9038D050 -	K9225DA K9225D025 - -	K9202DA K9202D050 - -
Engine typ	M50/B30, 1992-95 E36	M50/B30, 1992-95 E36	S50/B32 up, 1995 E36	S50/B32 up, 1995 E36	S54 E46
Bore size	86.00 86.50 86.75* 87.00	86.00 86.50 87.00 -	86.50 86.75* 87.00 -	86.50 86.75* - -	87.00 87.50 - -
Stroke	86	86	91	91	91
Displacement	2990ccm	2990ccm	3209ccm	3209ccm	3246ccm
Wössner Comp. ratio	12.6:1	12.6:1	12.3:1	12.3:1	12.3:1
OE Comp. ratio	10.5:1	10.8:1	11.3:1	10.5:1	11.3:1
Comp. height	31.5	32.80	32	31	32.3
Rod lenght	142mm	142mm	139mm	139mm	139mm
Block height	-	-	-	-	-
Dome volume	+5cm ³	-	+5.4cm ³	-	+5.4cm ³
Gasket thickness	-	-	-	-	-
Valves per Cylinder	4	4	4	4	4
Cylinder No.	6	6	6	6	6
Piston weight in grams	306	313	316	296	324
Ring Part No.	860XSY 865XSY 870XSY* 870XSY	860XSY 865XSY 870XSY -	865XSY 870XSY* 870XSY -	865XSY 870XSY* - -	870XSY 875XSY - -
Pin Part No.	WP951	WP909	WP934	WP909	WP934
Clip Part No.	CW21	CW22	CW21	CW22	CW21
Kit Price Code	G	G	G	G	G

* Rings need to be shortened / Ringe müssen gekürzt werden

CHRYSLER



Model	Neon 2.0 Ltr. 16V 1994-2001
Kit Part No.	K9084DA K9084D050 K9084D100
Engine typ	ECB, 420A
Bore size	87.50 88.00 88.50
Stroke	83
Displacement	1995ccm
Wössner Comp. ratio	11.5:1
OE Comp. ratio	9.6:1
Comp. height	31.4
Rod length	139mm
Block height	212mm
Dome volume	+6cm ³
Gasket thickness	1.00
Valves per Cylinder	4
Cylinders	4
Piston weight in grams	347
Ring Part No.	875XSY 880XSY 885XSY
Pin Part No.	WP934
Clip Part No.	CW21
Kit Price Code	A

CITROËN



	AX Sport 1.3 Ltr.	AX GTI 1.4 Ltr.	AX GTI 1.4 Ltr.
Model			
Kit Part No.	K9114DA K9114D050 K9114D100	K9108DA K9108D050 K9108D100	K9109DA K9109D050 K9109D100
Engine typ	TU2/4	TU3/J2	TU3/J2
Bore size	75.00 75.50 76.00	75.00 75.50 76.00	75.00 75.50 76.00
Stroke	73.2	77	77
Displacement	1294ccm	1361ccm	1361ccm
Wössner Comp. ratio	11.5:1	11.4:1	11.7:1
OE Comp. ratio	9.6:1	9.6:1	9.6:1
Compr. height	38	41.5	35
Rod lenght	112.3mm	126.8mm	133.5mm
Block height	-	-	-
Dome volume	+7.16cm ³	+5.6cm ³	+7.3cm ³
Gasket thickness	-	-	-
Valves per Cylinder	2	2	2
Cylinders	4	4	4
Piston weight in grams	252	278	248
Ring Part No.	750XDS 755XDS 760XDS	750XDS 755XDS 760XDS	750XDS 755XDS 760XDS
Pin Part No.	WP931	WP931	WP996
Clip Part No.	CW18	CW18	CW20 (19.46)
Kit Price Code	A	A	A

CITROËN



	Saxo VTS 1.6 Ltr. 16V Turbo	Saxo VTS 1.6 Ltr. 16V Gr. A	Saxo Kit Car 1.6 Ltr. 16V	C2 VTS 1.6 Ltr. 16V Gr. A
Model				
Kit Part No.	K9089DA K9089D020 K9089D050 K9089D150	K9039DA K9039D020 K9039D050 K9039D150	K9150D020 K9150D050 - -	K9177DA K9177D020 K9177D050 K9177D150
Engine typ	TU5J4	TU5J4	TU5J4	TU5JP4
Bore size	78.50 78.70 79.00 80.00	78.50 78.70 79.00 80.00	78.70 79.00 - -	78.50 78.70 79.00 80.00
Stroke	82	82	82	82
Displacement	1587ccm	1587ccm	1596ccm	1587ccm
Wössner Comp. ratio	9.0:1	12.0:1	12.7:1	12.2:1
OE Comp. ratio	10.7:1	10.7:1	12.7:1	10.8:1
Compr. height	32.5	32.5	28.3	32.1
Rod lenght	133.5mm	133.5mm	137.75mm	133.5mm
Block height	-	-	-	-
Dome volume	-	+9.4cm ³	+6.7cm ³	8.72cm ³
Gasket thickness	-	-	-	-
Valves per Cylinder	4	4	4	4
Cylinders	4	4	4	4
Piston weight in grams	284	260	254	260
Ring Part No.	785XTZ 787XTZ 790XTZ 800XTZ	785XDS 787XDS 790XDS 800XDS	787XDS 790XDS - -	785XDS 787XDS 790XDS 800XDS
Pin Part No.	WP935	WP996	WP931	WP931
Clip Part No.	CW20 (19.46)	CW20 (19.46)	CW18	CW18
Kit Price Code	A	A	A	A

* Rings need to be shortened / Ringe müssen gekürzt werden

CITROËN



Model	C2 VTS 1.6 Ltr. 16V Kit Car	ZX 2.0 Ltr. 16V (155PS)	ZX, Xsara 2.0 Ltr. 16V (167PS)	ZX, Xsara 2.0 Ltr. 16V Turbo (167PS)
Kit Part No.	K9233D020 - -	K9041DA K9041D050 K9041D100	K9181DA K9181D050 K9181D100	K9203DA K9203D050 K9203D100
Engine typ	TU5JP4	XU10J4	XU10J4RS	XU10J4RS
Bore size	78.70 - -	86.00 86.50 87.00	86.00 86.50 87.00	86.00 86.50 87.00
Stroke	82	86	86	86
Displacement	1594ccm	1998ccm	1998ccm	1998ccm
Wössner Comp. ratio	12.7:1	12.2:1	12.2:1	8.0:1
OE Comp. ratio	10.8:1	10.4:1	10.8:1	10.8:1
Compr. height	28.1	37	34	34
Rod lenght	137.75mm	152mm	158mm	158mm
Block height	207mm	233mm	233mm	235mm
Dome volume	+7.6cm ³	+5.9cm ³	+2.8cm ³	-
Gasket thickness	0.7mm	-	-	-
Valves per Cylinder	4	4	4	4
Cylinders	4	4	4	4
Piston weight in grams	243	362	317	345
Ring Part No.	787XDS - -	860XSY 865XSY 870XSY	860XSY 865XSY 870XSY	860XTY 865XTY 870XTY
Pin Part No.	WP931	WP909	WP938	WP938
Clip Part No.	CW18	CW22	CW20	CW20
Kit Price Code	A	A	A	A

CITROËN



	C4 VTR 2.0 Ltr. 16V (177 PS)	Xantia, XM, Evasion 2.0 Ltr. 8V Turbo
Model		
Kit Part No.	K9190DA K9190D050 -	K9199DA K9199D050 K9199D100
Engine typ	EW10J4RS	XU10J2CTE
Bore size	85.00 85.50 -	86.00 86.50 87.00
Stroke	88	86
Displacement	1997ccm	1997ccm
Wössner Comp. ratio	12.5:1	8.5:1
OE Comp. ratio	11.0:1	8.5:1
Compr. height	29.50	40
Rod length	139mm	152mm
Block height	235mm	-
Dome volume	+12cm ³	-
Gasket thickness	-	-
Valves per Cylinder	4	2
Cylinders	4	4
Piston weight in grams	336	387
Ring Part No.	850XSY 855XSY -	860XTY 865XTY 870XTY
Pin Part No.	WP934	WP917
Clip Part No.	CW21	CW22
Kit Price Code	A	A

FIAT



Model	Punto, Uno Turbo „old“ 1990-92	Punto, Uno Turbo „new“ 1993-99	Ritmo, Punto, Brava, Scudo, Tempra, Tipo 1990-2000
Kit Part No.	K9047DA K9047D050 K9047D100	K9048DA K9048D050 K9048D100	K9049DA K9049D060 K9049D110
Engine typ	146 A	176 A	159 A
Bore size	80.50 81.00 81.50	80.50 81.00 81.50	86.40* 87.00 87.50
Stroke	67.4	67.4	67.4
Displacement	1372ccm	1372ccm	1580ccm
Wössner Comp. ratio	7.8:1	7.8:1	9.2:1
OE Comp. ratio	7.8:1	7.8:1	9.2:1
Comp. height	33.30	34.15	33.30
Rod lenght	128.52mm	128.52mm	128.52mm
Block height	-	-	-
Dome volume	-6.5cm ³	-3.9cm ³	-4.77cm ³
Gasket thickness	-	-	-
Valves per Cylinder	2	2	2
Cylinders	4	4	4
Piston weight in grams	294	302	332
Ring Part No.	805XTZ 810XTY 815XTY	805XTZ 810XTY 815XTY	865XTY* 870XTY 875XTY
Pin Part No.	WP917	WP917	WP917
Clip Part No.	CW22	CW22	CW22
Kit Price Code	A	A	A

* Rings need to be shortened / Ringe müssen gekürzt werden

FIAT



Model	Punto Rally Super 1600	Punto, Barchetta, Stilo 1.8 Ltr. 16V HGT Turbo	Coupe 2.0 20V Turbo (220PS)
Kit Part No.	K9285DA - -	K9274DA K9274D050 K9274D100	K9212DA K9212D050 K9212D100
Engine typ	188 A	188 A	175 A
Bore size	74.70* - -	82.00 82.50 83.00	82.00 82.50 83.00
Stroke	82.70	82.70	75.65
Displacement	1579ccm	1746ccm	1998ccm
Wössner Comp. ratio	12.5:1	9.0:1	8.0:1
OE Comp. ratio	10.3:1	10.3:1	8.5:1
Comp. height	-	-	32.80
Rod length	-	-	145mm
Block height	-	-	-
Dome volume	-	-	-8.8cm ³
Gasket thickness	-	-	-
Valves per Cylinder	4	4	4
Cylinders	4	4	5
Piston weight in grams	-	-	312
Ring Part No.	750XDS - -	820XTY 825XTY 830XTY	820XTY 825XTY 830XTY
Pin Part No.	-	-	WP946
Clip Part No.	-	-	CW22
Kit Price Code	A	A	C

* Rings need to be shortened / Ringe müssen gekürzt werden

FERRARI



	246GT, GTS, Dino 1969-74	250GT, GTE, GT6 1954-56	275GTB-4 1964-66
Model			
Kit Part No.	K9101DA K9101D050 K9101D100 K9101D150	K9001DA K9001D050 K9001D100 -	K9003DA K9003D050 K9003D100 -
Engine typ	-	-	-
Bore size	92.50 93.00 93.50 94.00	73.00 73.50 74.00 -	77.00 77.50 78.00 -
Stroke	60	59	59
Displacement	2418ccm	2963ccm	3295ccm
Wössner Comp.ratio	10.0:1	10.0:1	10.5:1
OE Comp.ratio	9.0:1	9.0:1	9.2:1
Comp. height	30	26.9	27.8
Rod length	117.92mm	112mm	112mm
Block height	-	-	-
Dome volume	-	-	-
Gasket thickness	-	-	-
Valve per Cylinder	2	2	2
Cylinders	6	12	12
Piston weight in grams	302	230	260
Ring Part No.	925XSY 930XSY 935XSY 940XSY	730XDS 735XDS 740XDS -	770XDS 775XDS 780XDS -
Pin Part No.	WP952	WP945	WP945
Clip Part No.	CW20	CW17	CW17
Kit Price Code	G	I	I

FERRARI



	308/208 GT4, GTB 1973-85	330GTC, GTS, GT 1963-68	365GTB-4, BB, Daytona 1966-84
Model			
Kit Part No.	K9004D050 K9004D100 -	K9002DA K9002D050 K9002D100	K9004D050 K9004D100 -
Engine typ	F106 A	-	-
Bore size	81.50 82.00 -	77.00 77.50 78.00	81.50 82.00 -
Stroke	71	71	71
Displacement	2961ccm	3967ccm	4442ccm
Wössner Comp.ratio	10.5:1	-	10.5:1
OE Comp.ratio	8.8:1	8.8:1	9.3:1
Comp. height	30.8	29.9	30.8
Rod length	137mm	-	137mm
Block height	-	-	-
Dome volume	-	-	-
Gasket thickness	-	-	-
Valve per Cylinder	2	2	2
Cylinders	8	12	12
Piston weight in grams	306	285	306
Ring Part No.	815XSY 820XSY -	770XDS 775XDS 780XDS	815XSY 820XSY -
Pin Part No.	WP984	WP984	WP984
Clip Part No.	CW19	CW19	CW19
Kit Price Code	J	I	I

FORD



	Sierra Cosworth	Sierra 4x4, Escort Cosworth	Cosworth 2.0 Ltr. 16V Non Turbo	2.0 Ltr. 8V Pinto OHC Non Turbo	1.8 Ltr. 16V Turbo Zetec
Model					
Kit Part No.	K9027D020 K9027D045 K9027D070 K9027D095 K9027D120 K9027D170 K9027D220 -	K9009D020 K9009D045 K9009D070 K9009D095 K9009D120 K9009D170 K9009D220 -	K9217D020 K9217D045 K9217D070 K9217D095 K9217D120 K9217D170 K9217D220 -	K9232D010 K9232D020 K9232D045 K9232D070 K9232D095 K9232D120 K9232D170 K9232D220	K9286D040 K9286D090 - - - - - -
Engine typ	N5B	N5B	N5B	YB	-
Bore size	91.00 91.25* 91.50 91.75* 92.00 92.50 93.00	91.00 91.25* 91.50 91.75* 92.00 92.50 93.00	91.00 91.25* 91.50 91.75* 92.00 92.50 93.00	90.90 91.25* 91.50 91.75* 92.00 92.50 93.00	81.00 81.50 - - - - -
Stroke	77	77	77	77	88
Displacement	1995ccm	1995ccm	1995ccm	1995ccm	1812ccm
Wössner Comp. ratio	8.0:1	8.0:1	12.5:1	12.0:1	8.0:1
OE Comp. ratio	8.0:1	8.0:1	8.0:1	9.2:1	10.0:1
Comp. height	40.75	40.75	40.5	41.65	32
Rod length	128.5mm	128.5mm	128.5mm	128.5mm	136.18mm
Block height	-	-	-	-	-
Dome volume	-15cm ³	-19cm ³	+11.6cm ³	-	-
Gasket thickness	-	-	-	-	-
Valve per Cylinder	4	4	4	2	4
Cylinders	4	4	4	4	4
Piston weight in grams	424	434	399	414	-
Ring Part No.	910XTY 915XTY* 915XTY 920XTY* 920XTY 925XTY 930XTY -	910XTY 915XTY* 915XTY 920XTY* 920XTY 925XTY 930XTY -	910XSY 915XSY* 915XSY 920XSY* 920XSY 925XSY 930XSY -	910XSY* 910XSY 915XSY* 915XSY 920XSY* 920XSY 925XSY 930XSY	810XTY 815XTY - - - - - -
Pin Part No.	WP922	WP922	WP957	WP957	WP995
Clip Part No.	CW24	CW24	CW24	CW24	CW21 (20.63)
Kit Price Code	A	A	A	A	A

* Rings need to be shortened / Ringe müssen gekürzt werden

FORD



Model	Escort, Orion, Fiesta MK3, Mondeo, Cougar, Focus RS 2.0 Ltr. 16V Turbo Zetec-E / ZVH / CVH up to 1998	Escort, Orion, Fiesta MK3, Mondeo, Cougar, Focus 2.0 Ltr. 16V Zetec-E up to 1998	Focus, Mondeo Duratec HE 2.0 Ltr. 16V	Focus, Mondeo Duratec HE 2.0 Ltr. 16V Turbo
Kit Part No.	K9198DA K9198D070 K9198D120	K9066DA K9066D070 K9066D120	K9220DA K9220D050 K9220D100	K9272DA K9272D050 K9272D100
Engine typ	NGA	NGA	CJBA	CJBA
Bore size	84.80* 85.50 86.00	84.80* 85.50 86.00	87.50 88.00 88.50	87.50 88.00 88.50
Stroke	88	88	83.1	83.1
Displacement	1998ccm	1998ccm	1999ccm	1999ccm
Wössner Comp. ratio	8.0:1	12.0:1	12.5:1	8.5:1
OE Comp. ratio	10.0:1	10.0:1	10.8:1	10.8:1
Comp. height	32	33	28.65	28.00
Rod lenght	136.18mm	136.18mm	146.25mm	146.25mm
Block height	-	-	-	-
Dome volume	-15.3cm ³	+10.6cm ³	+5.28cm ³	-17.8cm ³
Gasket thickness	-	-	-	-
Valve per Cylinder	4	4	4	4
Cylinders	4	4	4	4
Piston weight in grams	340	341	345	309
Ring Part No.	850XTY* 855XTY 860XTY	850XSY* 855XSY 860XSY	875XSY 880XSY 885XSY	875XSY 880XSY 885XSY
Pin Part No.	WP995	WP995	WP934	WP992
Clip Part No.	CW21 (20.63)	CW21 (20.63)	CW21	CW21
Kit Price Code	A	A	A	A

* Rings need to be shortened / Ringe müssen gekürzt werden

FORD



Model	Focus, Mondeo Duratec 2.3 Ltr. 16V	Focus, Mondeo Duratec 2.3 Ltr. 16V Turbo	Focus, Mondeo Duratec 2.5 Ltr. 16V
Kit Part No.	K9282D010 K9282D060 K9282D110 K9282D160	K9283D010 K9283D060 K9283D110 K9283D160	K9284D010 K9284D060 K9284D110 K9284D160
Engine typ	CJBA	CJBA	CJBA
Bore size	87.50 88.00 88.50 89.00	87.50 88.00 88.50 89.00	87.50 88.00 88.50 89.00
Stroke	94	94	101
Displacement	2259ccm	2259ccm	2428ccm
Wössner Comp. ratio	13.0:1	9.0:1	12.5:1
OE Comp. ratio	10.4:1	10.4:1	10.4:1
Comp. height	28.50	28.50	28.50
Rod lenght	154.78mm	154.78mm	154.78mm
Block height	-	-	-
Dome volume	-	-	-
Gasket thickness	-	-	-
Valve per Cylinder	4	4	4
Cylinders	4	4	4
Piston weight in grams	-	-	-
Ring Part No.	875XSY 880XSY 885XSY 890XSY	875XTY 880XTY 885XTY 890XTY	875XSY 880XSY 885XSY 890XSY
Pin Part No.	-	-	-
Clip Part No.	CW21	CW21	CW21
Kit Price Code	A	A	A

* Rings need to be shortened / Ringe müssen gekürzt werden

FORD



Model	Escort, Fiesta RS Turbo	Focus ST 2.5 Ltr. 20V Turbo	Mondeo 3.0 Ltr. V6 ST220 Supercharger
Kit Part No.	K9216DA K9216D050 K9216D100	K9276DA K9276D050 K9276D100	K9275D050 K9275D100 -
Engine typ	CVH	-	-
Bore size	80.00 80.50 81.00	83.00 83.50 84.00	88.50 89.00 -
Stroke	79.52	93.2	79.50
Displacement	1597ccm	2522ccm	2932ccm
Wössner Comp. ratio	7.5:1	8.5:1	8.5:1
OE Comp. ratio	8.3:1	9.0:1	10.0:1
Comp. height	38.80	28.4	29.80
Rod length	132mm	-	-
Block height	-	-	-
Dome volume	-0.2cm ³	-	-
Gasket thickness	-	-	-
Valve per Cylinder	4	4	4
Cylinders	4	5	6
Piston weight in grams	338	290	-
Ring Part No.	800XTZ 805XTZ 810XTY	830XTY 835XTY 840XTY	885XTY 890XTY -
Pin Part No.	WP995	WP992	WP992
Clip Part No.	CW21 (20.63)	CW21	CW21
Kit Price Code	A	C	G

HONDA



Model	Civic SI 1999-2000 Del Sol 1993-97	Civic SI 1999-2000 Del Sol 1993-97 Turbo	Civic 1.6 Ltr. V-Tec Turbo (158 PS)	Civic 1.6 Ltr. V-Tec (158 PS)
Kit Part No.	K9087DA K9087D050 K9087D100	K9266DA K9266D050 K9266D100	K9162DA K9162D050 K9162D100	K9070DA* K9070D050* K9070D100*
Engine typ	B16A1, A2, A3	B16A1, A2, A3	B16A	B16A
Bore size	81.00 81.50 82.00	81.00 81.50 82.00	81.00 81.50 82.00	81.00 81.50 82.00
Stroke	77.4	77.4	77.4	77.4
Displacement	1594ccm	1594ccm	1595ccm	1595ccm
Wössner Comp. ratio	11.5:1	8.5:1	8.0:1	11.5:1
OE Comp. ratio	10.2:1	10.2:1	10.2:1	10.2:1
Comp. height	29.9	29.9	29.85	30.1
Rod length	134mm	134mm	134.4mm	134.4mm
Block height	203.2mm	203.2mm	-	-
Dome volume	-	-6.8cm ³	-	-
Gasket thickness	0.75mm	0.75mm	-	-
Valve per Cylinder	4	4	4	4
Cylinders	4	4	4	4
Piston weight in grams	293	294	280	288
Ring Part No.	810XSY 815XSY 820XSY	810XTY 815XTY 820XTY	810XTY 815XTY 820XTY	810XSY 815XSY 820XSY
Pin Part No.	WP951	WP951	WP934	WP913
Clip Part No.	CW21	CW21	CW21	CW21
Kit Price Code	A	A	A	A

* Engines and pistons are identical. Different displacement prove different comp. Ratios.

HONDA

Model	Civic EX, SI 1992-95 Del Sol 1993-95 Turbo	Civic EX, SI 1992-95 Del Sol 1993-95	Civic EX, Coupe ISR, Del Sol, V-Tec SOHC 1996-98
Kit Part No.	K9161DA K9161D050 K9161D100	K9267DA K9267D050 K9267D100	K9085DA K9085D050 K9085D100
Engine typ	D16Z6, Y6	D16Z6, Y6	D16Y8
Bore size	75.50 76.00 76.50	75.50 76.00 76.50	75.00 75.50 76.00
Stroke	90	90	90
Displacement	1610ccm	1610ccm	1590ccm
Wössner Comp. ratio	8.0:1	11.5:1	8.0:1
OE Comp. ratio	9.4:1	9.4:1	9.6:1
Comp. height	29.81	29.81	29.2
Rod length	137mm	137mm	137mm
Block height	-	-	212mm
Dome volume	-	-	-
Gasket thickness	-	-	0.71
Valve per Cylinder	2	2	4
Cylinders	4	4	4
Piston weight in grams	-	-	-
Ring Part No.	755XTZ 760XTZ 765XTZ	755XDS 760XDS 765XDS	750XTZ 755XTZ 760XTZ
Pin Part No.	-	-	-
Clip Part No.	CW19	CW19	CW19
Kit Price Code	A	A	A

HONDA



Model	Integra GSR 1992-93	Integra GSR Turbo 1992-93	Integra Typ R 1.8 Ltr. V-Tec 1997-2000	Integra Typ R 1.8 Ltr. V-Tec Turbo 1997-2000
Kit Part No.	K9070DA* K9070D050* K9070D100*	K9159DA K9159D050 K9159D100	K9069DA K9069D050 K9069D100	K9210DA K9210D050 K9210D100
Engine typ	B17A1	B17A1	B18C5, C6	B18C5, C6
Bore size	81.00 81.50 82.00	81.00 81.50 82.00	81.00 81.50 82.00	81.00 81.50 82.00
Stroke	81.4	81.4	87	87
Displacement	1677ccm	1677ccm	1792ccm	1792ccm
Wössner Comp. ratio	11.2:1	8.5:1	11.7:1	8.5:1
OE Comp. ratio	9.4:1	9.4:1	10.6:1	10.6:1
Comp. height	30.1	30.1	30	30
Rod length	132.28mm	132.28mm	137mm	137mm
Block height	-	-	-	-
Dome volume	-	-	+3.4cm ³	-10cm ³
Gasket thickness	-	-	-	-
Valve per Cylinder	4	4	4	4
Cylinders	4	4	4	4
Piston weight in grams	288	-	298	292
Ring Part No.	810XSY 815XSY 820XSY	810XTY 815XTY 820XTY	810XSY 815XSY 820XSY	810XTY 815XTY 820XTY
Pin Part No.	WP913	WP992	WP913	WP992
Clip Part No.	CW21	CW21	CW21	CW21
Kit Price Code	A	A	A	A

* Engines and pistons are identical. Different displacement prove different comp. Ratios.

HONDA



Model	Civic 1.8 Ltr. 16V VTI Turbo	Civic 1.8 Ltr. 16V VTI (170PS)	Integra Non-VTEC Turbo 1990-2001
Kit Part No.	K9165DA K9165D050 K9165D100	K9070DA* K9070D050* K9070D100*	K9168DA K9168D050 K9168D100
Engine typ	B18C4	B18C	B18A1/B1
Bore size	81.00 81.50 82.00	81.00 81.50 82.00	81.00 81.50 82.00
Stroke	87.2	87.2	89
Displacement	1797ccm	1797ccm	1833ccm
Wössner Comp. ratio	9.0:1	12.2:1	8.5:1
OE Comp. ratio	10.0:1	10.0:1	9.2:1
Comp. height	30	30	30
Rod length	138mm	138mm	137mm
Block height	-	-	-
Dome Volume	-11.78cm ³	-	-
Gasket thickness	-	-	-
Valve per Cylinder	4	4	4
Cylinders	4	4	4
Piston weight in grams	282	288	-
Ring Part No.	810XTY 815XTY 820XTY	810XSY 815XSY 820XSY	810XTY 815XTY 820XTY
Pin Part No.	WP992	WP913	-
Clip Part No.	CW21	CW21	-
Kit Price Code	A	A	A

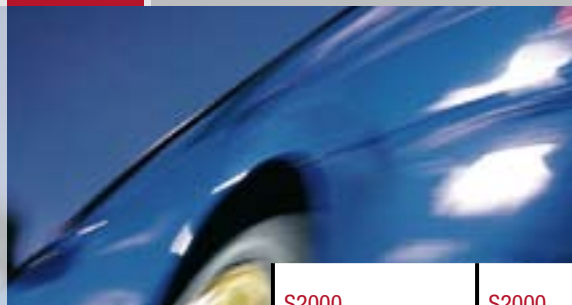
* Engines and pistons are identical. Different displacement prove different comp. Ratios.

HONDA



Model	Integra Non-VTEC 1990-2001	Integra GSR 1994-2001	Integra GSR Turbo 1994-2001	S2000 2000-2003
Kit Part No.	K9170DA K9170D050 K9170D100	K9264DA K9264D050 K9264D100	K9265DA K9265D050 K9265D100	K9208DA K9208D050 K9208D100
Engine typ	B18A1/B1	B18C1	B18C1	F20C, C1
Bore size	81.00 81.50 82.00	81.00 81.50 82.00	81.00 81.50 82.00	87.00 87.50 88.00
Stroke	89	87.2	87.2	84
Displacement	1833ccm	1796ccm	1796ccm	1997ccm
Wössner Comp. ratio	11.6:1	12.0:1	9.0:1	12.5:1
OE Comp. ratio	9.2:1	10.6:1	10.6:1	11.0:1
Comp. height	30	30	30	30
Rod length	137mm	138mm	138mm	153mm
Block height	-	-	-	-
Dome volume	-	-	-	+9.4cm ³
Gasket thickness	-	-	-	-
Valve per Cylinder	4	4	4	4
Cylinders	4	4	4	4
Piston weight in grams	-	-	-	336
Ring Part No.	810XSY 815XSY 820XSY	810XSY 815XSY 820XSY	810XSY 815XSY 820XSY	870XSY 875XSY 880XSY
Pin Part No.	-	-	-	WP924
Clip Part No.	-	-	-	CW23
Kit Price Code	A	A	A	A

HONDA



Model	S2000 2000-03 Stroker Kit	S2000 2000-03 Turbo	RSX Type S 2002 up Civic Typ R 2001-07	RSX Type S 2002 up Civic Typ R 2001-07 Turbo	RSX Type S 2002 up Civic Typ R 2001-07 Stroker Kit
Kit Part No.	K9245DA - -	K9209DA K9209D050 K9209D100	K9088DA K9088D050 K9088D100	K9244DA K9244D050 K9244D100	K9243DA K9243D050 -
Engine typ	F20C, C1	F20C, C1	K20A2/A3	K20A2/A3	K20A2/A3
Bore size	87.00 - -	87.00 87.50 88.00	86.00 86.50 87.00	86.00 86.50 87.00	86.00 86.50 -
Stroke	90.7	84	86	86	92
Displacement	2155ccm	1997ccm	1997ccm	1997ccm	2136ccm
Wössner Comp. ratio	8.5:1	8.5:1	12.0:1	9.0:1	12.3:1
OE Comp. ratio	11.0:1	11.0:1	11.0:1	11.0:1	11.5:1
Comp. height	26.70	30	30	30	27
Rod length	153mm	153mm	138mm	138mm	-
Block height	-	-	212.1mm	212.1mm	212.1mm
Dome volume	-	-30cm ³	+7.85cm ³	-7.63cm ³	+8.25cm ³
Gasket thickness	-	-	0.63mm	0.63mm	0.63mm
Valve per Cylinder	4	4	4	4	4
Cylinders	4	4	4	4	4
Piston weight in grams	-	298	318	310	291
Ring Part No.	870XTY - -	870XTY 875XTY 880XTY	860XSY 865XSY 870XSY	860XTY 865XTY 870XTY	860XSY 865XSY -
Pin Part No.	WP924	WP924	WP917	WP917	WP917
Clip Part No.	CW23	CW23	CW22	CW22	CW22
Kit Price Code	A	A	A	A	A

HONDA



	CR-V Turbo 1997-98	Prelude SI 1992-96 Prelude 1997-2001 Turbo	Prelude SI 1992-96 Prelude 1997-2001	Prelude 2.2 Ltr. DOHC V-Tec
Model				
Kit Part No.	K9086DA K9086D050 K9086D100	K9157DA K9157D100 K9157D200	K9158DA K9158D100 K9158D200	K9068DA K9068D050 K9068D100
Engine typ	B20B3	H22A1/A4	H22A1/A4	H22
Bore size	84.00 84.50 85.00	87.00 88.00 89.00	87.00 88.00 89.00	87.00 87.50 88.00
Stroke	89	90.7	90.7	90
Displacement	1971ccm	2155ccm	2155ccm	2138ccm
Wössner Comp. ratio	8.0:1	8.0:1	11.6:1	12.0:1
OE Comp. ratio	8.8:1	9.0:1	9.0:1	11.5:1
Comp. height	30	31	31	30.9
Rod lenght	137mm	143mm	143mm	143mm
Block height	212mm	-	-	-
Dome volume	-18cm ³	-	-	-
Gasket thickness	0.71	-	-	-
Valve per Cylinder	4	4	4	4
Cylinders	4	4	4	4
Piston weight in grams	306	-	-	-
Ring Part No.	840XTY 845XTY 850XTY	870XTY 880XTY 890XTY	870XSY 880XSY 890XSY	870XSY 875XSY 880XSY
Pin Part No.	WP992	-	-	-
Clip Part No.	CW21	CW22	CW22	CW22
Kit Price Code	A	A	A	A

HONDA



Model	Prelude SI 1992-96 Prelude 1997-2001	CRX 1.6 16V V-Tec DOHC 1987-92	CRX 1.6 16V V-Tec DOHC Turbo 1987-92
Kit Part No.	K9067D050 K9067D100 K9067D150	K9206DA K9206D050 -	K9207DA K9207D050 -
Engine typ	H23A1	ED9 / EE8	ED9 / EE8
Bore size	87.50 88.00 88.50	75.50 76.00 -	75.50 76.00 -
Stroke	95	90	90
Displacement	2283ccm	1610ccm	1610ccm
Wössner Comp. ratio	11:1	11.6:1	8.5:1
OE Comp. ratio	10:1	10.5:1	10.5:1
Comp. height	30.5	29.20	29.20
Rod length	141.50mm	-	-
Block height	-	-	-
Dome volume		+9.8cm ³	-4cm ³
Gasket thickness	-	-	-
Valve per Cylinder	4	4	4
Cylinders	4	4	4
Piston weight in grams	-	283	260
Ring Part No.	875XSY 880XSY 885XSY	755XDS 760XDS -	755XTZ 760XTZ -
Pin Part No.	-	WP950	WP937
Clip Part No.	-	CW19	CW19
Kit Price Code	A	A	A

HYUNDAI



Model	Tiburon, Coupe RC 1.8 Ltr. 16V Beta 1, 1996-2001	Tiburon, Coupe RC 2.0 Ltr. 16V Beta 1, 1996-2001	Tiburon, Coupe GLS 2.7 Ltr. V6 2003 up
Kit Part No.	K9226DA K9226D050 K9226D100	K9080DA K9080D050 K9080D100	K9227DA K9227D080 K9227D130
Engine Typ	S-4	S-4	-
Bore size	81.50 82.00 82.50	82.00 82.50 83.00	86.70* 87.50 88.00
Stroke	88	93.5	75
Displacement	1836ccm	1974ccm	2655ccm
Wössner Comp. ratio	12.0:1	12.0:1	12.0:1
OE Comp. ratio	9.2:1	10.0:1	10.0:1
Comp. height	-	31	-
Rod length	-	146.1mm	-
Block height	-	-	-
Dome volume	-	-	-
Gasket thickness	-	0.71	-
Valve per Cylinder	4	4	4
Cylinders	4	4	6
Piston weight in grams	-	-	-
Ring Part No.	815XSY 820XSY 825XSY	820XSY 825XSY 830XSY	870XSY* 875XSY 880XSY
Pin Part No.	-	-	-
Clip Part No.	-	CW20	-
Kit Price Code	A	A	-

* Rings need to be shortened / Ringe müssen gekürzt werden

LANCIA



	Lybra 1.8 Ltr. Turbo 16V	Delta Integrale 2.0 Ltr. Turbo 8V	Delta Integrale 2.0 Ltr. Turbo 16V	Stratos
Model				
Kit Part No.	K9274DA K9274D050 K9274D100 - -	K9010DA K9010D020 K9010D040 K9010D060 K9010D080	K9011DA K9011D020 K9011D040 K9011D060 K9011D080	K9101DA K9101D050 K9101D100 K9101D150 -
Engine Typ	188 A	835	836	69-74
Bore size	82.00 82.50 83.00 - -	84.00 84.20* 84.40* 84.60* 84.80*	84.00 84.20* 84.40* 84.60* 84.80*	92.50 93.00 93.50 94.00 -
Stroke	82.70	90	90	60
Displacement	1746ccm	1995ccm	1995ccm	2418ccm
Wössner Comp. Ratio	9.0:1	8.0:1	8.0:1	10.0:1
OE Comp. Ratio	10.3:1	8.0:1	8.0:1	9.0:1
Comp. Height	-	39.65	39.65	30
Rod Lenght	-	145mm	145mm	117.92mm
Block Height	-	-	-	-
Dome volume	-	-17.45cm ³	-38.5cm ³	-
Gasket Thickness	-	-	-	-
Valve per Cylinder	4	2	4	2
Cylinders	4	4	4	-
Piston weight in grams	-	331	346	302
Ring Part No.	820XTY 825XTY 830XTY - -	840XTY 845XTY* 845XTY* 850XTY* 850XTY*	840XTY 845XTY* 845XTY* 850XTY* 850XTY*	925XSY 930XSY 935XSY 940XSY -
Pin Part No.	-	WP917	WP917	WP952
Clip Part No.	-	CW22	CW22	CW20
Kit Price Code	A	A	A	G

* Rings need to be shortened / Ringe müssen gekürzt werden

MAZDA



Model	Miata, MX-5 1.6 Ltr. 16V	Miata, MX-5 1.6 Ltr. 16V Turbo
Kit Part No.	K9079DA K9079D050 K9079D100	K9099DA K9099D050 K9099D100
Engine typ	ABK / NA	ABK / NA
Bore size	78.50 79.00 79.50	78.50 79.00 79.50
Stroke	83.5	83.5
Displacement	1.615ccm	1.615ccm
Wössner Comp. ratio	12.0:1	8.0:1
OE Comp. ratio	9.4:1	9.4:1
Comp. height	32.4	32.4
Rod length	133mm	133mm
Block height	206.5mm	206.5mm
Dome volume	+0.17cm ³	-12cm ³
Gasket thickness	1.1	1.1
Valve per Cylinder	4	4
Cylinders	4	4
Piston weight in grams	305	282
Ring Part No.	785XDS 790XDS 795XDS	785XTZ 790XTZ 795XTZ
Pin Part No.	WP938	WP952
Clip Part No.	CW20	CW20
Kit Price Code	A	A

MAZDA



Model	Miata, MX-5 1.8 Ltr. 16V 1994-2005	Miata, MX-5 1.8 Ltr. 16V Turbo 1994-2005	Miata, MX-5 2.0 Ltr. 16V Turbo	MX-6, 626 2.0 Ltr. FS Turbo
Kit Part No.	K9078DA K9078D050 K9078D100 K9078D150 K9078D200	K9100DA K9100D050 K9100D100 K9100D150 -	K9228DA K9228D050 K9228D100 - -	K9121DA K9121D050 K9121D100 - -
Engine typ	BP / NB	BP / NB	MZR 14 / NC	-
Bore size	83.00 83.50 84.00 84.50 85.00	83.00 83.50 84.00 84.50 -	87.50 88.00 88.50 - -	83.00 83.50 84.00 - -
Stroke	85	85	83.10	92
Displacement	1.860ccm	1.860ccm	1999ccm	1990ccm
Wössner Comp. ratio	12.0:1	8.6:1	8.5:1	8.0:1
OE Comp. ratio	11.0:1	11.0:1	10.8:1	9.2:1
Comp. height	31.20	31.20	28.4	29
Rod length	133mm	133mm	-	135mm
Block height	206.5mm	206.5mm	-	211mm
Dome volume	+7cm ³	-3.4cm ³	-16.28cm ³	-
Gasket thickness	0.79	0.79	-	0.81
Valve per Cylinder	4	4	4	4
Cylinders	4	4	4	4
Piston weight in grams	326	318	325	-
Ring Part No.	830XSY 835XSY 840XSY 845XSY 850XSY	830XTY 835XTY 840XTY 845XTY -	875XTY 880XTY 885XTY - -	830XTY 835XTY 840XTY - -
Pin Part No.	WP952	WP952	WP934	-
Clip Part No.	CW20	CW20	CW21	CW19
Kit Price Code	A	A	A	A

MG



Model	ZR 1.4 Ltr. 16V	ZR, ZS, ZT, F, TF 1.8 Ltr. 16V
Kit Part No.	K9221DA K9221D050 K9221D100	K9222DA K9222D050 K9222D100
Engine typ	14K4F	18K4F
Bore size	75.00 75.50 76.00	80.00 80.50 81.00
Stroke	79	89.3
Displacement	1395ccm	1796ccm
Wössner Comp. ratio	12.5:1	12.0:1
OE Comp. ratio	10.3:1	10.5:1
Comp. height	22.25	24.46
Rod length	139.40mm	133.10mm
Block height	-	-
Dome volume	-	-
Gasket thickness	-	-
Valve per Cylinder	4	4
Cylinders	4	4
Piston weight in grams	218	253
Ring Part No.	750XDS 755XDS 760XDS	800XDS 805XDS 810XSY
Pin Part No.	WP931	WP931
Clip Part No.	CW18	CW18
Kit Price Code	A	A

MINI COOPER



Model	Cooper S 2002 and later
Kit Part No.	K9123DA K9123D025 K9123D050
Engine typ	-
Bore size	77.00 77.25* 77.50
Stroke	85.50
Displacement	1591ccm
Wössner Comp. ratio	8.3:1
OE Comp. ratio	8.3:1
Comp. height	26.50
Rod length	131.50mm
Block height	-
Dome volume	-1.25cm ³
Gasket thickness	-
Valve per Cylinder	4
Cylinders	4
Piston weight in grams	236
Ring Part No.	770XTZ 775XTZ* 775XTZ
Pin Part No.	WP951
Clip Part No.	CW21
Kit Price Code	A

* Rings need to be shortened / Ringe müssen gekürzt werden

MITSUBISHI



Model	Eclipse, Talon, EVO 1-3 1988-92	Eclipse, Talon, EVO 1-3 1988-92 Stroker Kit	Eclipse, Talon, EVO 4-7 1992 up
Kit Part No.	K9063DA K9063D050 K9063D100 K9063D150 -	K9242DA K9242D050 - - -	K9062DA K9062D050 K9062D100 K9062D150 K9062D200
Engine typ	4G63	4G64	4G63
Bore size	85.00 85.50 86.00 86.50 -	85.00 85.50 - - -	85.00 85.50 86.00 86.50 87.00
Stroke	88	102	88
Displacement	1997ccm	2314ccm	1997ccm
Wössner Comp. ratio	8.0:1	8.0:1	8.0:1
OE Comp. ratio	8.5:1	8.5:1	8.8:1
Comp. height	34.60	28.70	34.60
Rod length	150mm	150mm	150mm
Block height	-	-	-
Dome volume	-22.2cm ³	-	-22.2cm ³
Gasket thickness	-	-	-
Valve per Cylinder	4	4	4
Cylinders	4	4	4
Piston weight in grams	335	-	344
Ring Part No.	850XTY 855XTY 860XTY 865XTY -	850XTY 855XTY - - -	850XTY 855XTY 860XTY 865XTY 870XTY
Pin Part No.	WP992	WP992	WP946
Clip Part No.	CW21	CW21	CW22
Kit Price Code	A	A	A

MITSUBISHI

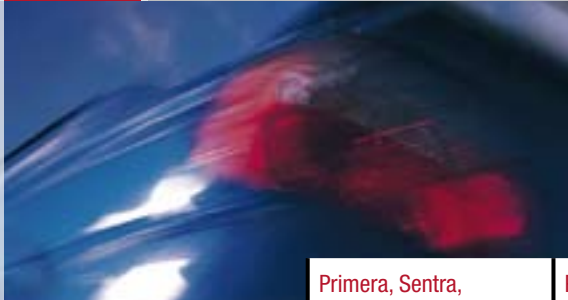


Model	Eclipse, Talon, EVO 4-7 1992 up Stroker Kit	EVO 8-9 2003 up	EVO 8-9 2003 up Stroker Kit	EVO 10 RS 2007 up
Kit Part No.	K9251DA K9251D050 -	K9125DA K9125D050 K9125D100	K9241DA K9241D050 -	K9279DA K9279D050 K9279D100
Engine typ	4G64	4G63	4G64	4B11 MIVEC
Bore size	85.00 85.50 -	85.00 85.50 86.00	85.00 85.50 -	86.00 86.50 87.00
Stroke	102	88	102	86
Displacement	2314ccm	1997ccm	2314ccm	1997ccm
Wössner Comp. ratio	8.0:1	8.0:1	8.0:1	8.55:1
OE Comp. ratio	8.8:1	8.8:1	8.8:1	9.0:1
Comp. height	28.60	34.30	28.70	33.30
Rod lenght	150mm	150mm	150mm	140.75mm
Block height	-	229mm	229mm	-
Dome volume	-	-14cm ³	-	-8.9cm ³
Gasket thickness	-	0.86	0.86	-
Valve per Cylinder	4	4	4	4
Cylinders	4	4	4	4
Piston weight in grams	-	320	-	348
Ring Part No.	850XTY 855XTY -	850XTY 855XTY 860XTY	850XTY 855XTY -	860XTY 865XTY 870XTY
Pin Part No.	WP946	WP917	WP917	WP994
Clip Part No.	CW22	CW22	CW22	CW23
Kit Price Code	A	A	A	A

MITSUBISHI

Model	2.0 Ltr. Eclipse Eagle Talon	Eclipse 1995-99 Eagle Talon 1995-98 DOHC	3000GT, GTO, VR4 Stealth 1991-99
Kit Part No.	K9064DA K9064D050 K9064D100 K9064D150 K9064D200	K9084DA K9084D050 K9084D100 - -	K9077D040 K9077D090 K9077D140 - -
Engine typ	4G63	ECB, 420A	6G72TT
Bore size	85.00 85.50 86.00 86.50 87.00	87.50 88.00 88.50 - -	91.50 92.00 92.50 - -
Stroke	88	83	76
Displacement	1996ccm	1995ccm	2998ccm
Wössner Comp. ratio	8.0:1	11.5:1	8.0:1
OE Comp. ratio	8.3:1	9.6:1	8.0:1
Comp. height	35	31.4	32
Rod lenght	150mm	139mm	140.9mm
Block height	229mm	212mm	211.2mm
Dome volume	-17cm ³	-	-15.2cm ³
Gasket thickness	1.1	1.0	1.27
Valve per Cylinder	4	4	4
Cylinders	4	4	6
Piston weight in grams	328	347	368
Ring Part No.	850XTY 855XTY 860XTY 865XTY 870XTY	875XSY 880XSY 885XSY - -	915XTY 920XTY 925XTY - -
Pin Part No.	WP946	WP917	WP946
Clip Part No.	CW22	CW22	CW22
Kit Price Code	A	A	A

NISSAN



Model	Primera, Sentra, 200SX SE-R, Silvia, 180SX & Bluebird Turbo	Primera, Sentra Turbo 1991-94 Stroker Kit	Primera, Sentra, 200SX SE-R, Silvia, 180SX & Bluebird	R32-R34 Skyline
Kit Part No.	K9058DA K9058D050 K9058D100	K9261DA K9261D050 -	K9171DA K9171D050 K9171D100	K9172DA K9172D050 K9172D100
Engine typ	SR20 DET	SR20 DET	SR20 DE	RB25DET
Bore size	86.00 86.50 87.00	86.00 86.50 -	86.00 86.50 87.00	86.00 86.50 87.00
Stroke	86	91	86	71.7
Displacement	1998ccm	2113ccm	1998ccm	2526ccm
Wössner Comp. ratio	8.0:1	8.0:1	10.7:1	8.0:1
OE Comp. ratio	8.5:1	8.5:1	8.5:1	8.5:1
Comp. height	32	29.5	32	31.5
Rod lenght	136mm	136mm	136mm	121.5mm
Block height	211mm	211mm	211mm	188.5mm
Dome volume	-12cm ³	-	-	+8.8cm ³
Gasket thickness	0.91	0.91	0.91	1.1
Valve per Cylinder	4	4	4	4
Cylinders	4	4	4	6
Piston weight in grams	348	-	347	376
Ring Part No.	860XTY 865XTY 870XTY	860XTY 865XTY -	860XSY 865XSY 870XSY	860XTY 865XTY 870XTY
Pin Part No.	WP917	WP917	WP917	WP992
Clip Part No.	CW22	CW22	CW22	CW21
Kit Price Code	A	A	A	G

NISSAN



Model	R32-R34 GTR Skyline (with Valve-pockets)	R32-R34 GTR Skyline Stroker Kit	Skyline RB30	300ZX 3.0 Ltr. 1990-96
Kit Part No.	K9059DA K9059D050 K9059D100	K9262DA K9262D050 -	K9173DA K9173D050 K9173D100	K9060D050 K9060D100 -
Engine typ	RB26DETT	RB26DETT	RB30DET	VG30DE
Bore size	86.00 86.50 87.00	87.00 - -	86.00 86.50 87.00	87.50 88.00 -
Stroke	73	75.7	85	83
Displacement	2542ccm	2699ccm	2960ccm	2993ccm
Wössner Comp. ratio	8.5:1	8.5:1	7:1	11.0:1
OE Comp. ratio	8.5:1	8.5:1	7:1	9.0:1
Comp. height	30	29	32	32
Rod length	121.5mm	121.5mm	152.5mm	154mm
Block height	188.5mm	188.5mm	206.5mm	-
Dome volume	+16.56cm ³	-	-11.3cm ³	-
Gasket thickness	1.1	1.1	1	-
Valve per Cylinder	4	4	4	4
Cylinders	6	6	6	6
Piston weight in grams	358	-	363	-
Ring Part No.	860XTY 865XTY 870XTY	870XTY - -	860XTY 865XTY 870XTY	875XSY 880XSY -
Pin Part No.	WP992	WP992	WP992	WP946
Clip Part No.	CW21	CW21	CW21	CW22
Kit Price Code	G	G	G	G

NISSAN



	300ZX 3.0 Ltr. Turbo 1990-96	240SX 1991-98	240SX Turbo 1991-98
Model			
Kit Part No.	K9061DA K9061D050 K9061D100 K9061D150 K9061D200	K9076DA K9076D050 K9076D100 K9076D150 -	K9174DA K9174D050 K9174D100 K9174D150 -
Engine typ	VG30DETT	KA24DE	KA24DET
Bore size	87.00 87.50 88.00 88.50 89.00	89.00 89.50 90.00 90.50 -	89.00 89.50 90.00 90.50 -
Stroke	83	96	96
Displacement	2958ccm	2387ccm	2387ccm
Wössner Comp. ratio	8.0:1	11.5:1	8.5:1
OE Comp. ratio	9.0:1	10.5:1	10.5:1
Comp. height	32	34	34
Rod length	154mm	165mm	165mm
Block height	227mm	247mm	247mm
Dome volume	-9.6cm ³	-	-
Gasket thickness	1.1	1.1	1.1
Valve per Cylinder	4	4	4
Cylinders	6	4	4
Piston weight in grams	362	-	362
Ring Part No.	870XTY 875XTY 880XTY 885XTY 890XTY	890XSY 895XSY 900XSY 905XSY -	890XTY 895XTY 900XTY 905XTY -
Pin Part No.	WP946	WP934	WP992
Clip Part No.	CW22	CW21	CW21
Kit Price Code	G	A	A

NISSAN



Model	Silvia, Bluebird 200SX Turbo (S13) 1987-93	350Z Maxima, Altima Infiniti	350Z Maxima, Altima, Infiniti Stroker Kit	350Z Turbo Maxima, Altima, Infiniti	Pathfinder 4.0 Ltr. V6
Kit Part No.	K9197DA K9197D050 K9197D100	K9127DA K9127D050 K9127D100	K9247D050 - -	K9128DA K9128D050 K9128D100	K9258DA K9258D050 -
Engine typ	CA18DET	VQ35DE	VQ35DET	VQ35DET	VQ40DE
Bore size	83.00 83.50 84.00	95.50 96.00 96.50	96.00 - -	95.50 96.00 96.50	95.50 96.00 -
Stroke	83.6	81.4	87.4	81.4	92
Displacement	1809ccm	3496ccm	3794ccm	3496ccm	3951ccm
Wössner Comp. ratio	8.0:1	12.0:1	8.5:1	8.0:1	12.3:1
OE Comp. ratio	8.5:1	10.3:1	10.3:1	10.3:1	10.0:1
Comp. height	30	30	27	30	31.20
Rod lenght	133mm	144mm	144mm	144mm	-
Block height	-	215mm	215mm	215mm	-
Dome volume	-4.4cm ³	+12.5cm ³	-	-10cm ³	+12.5cm ³
Gasket thickness	-	1.14	1.14	1.14	-
Valve per Cylinder	4	4	4	4	4
Cylinders	4	6	6	6	6
Piston weight in grams	316	388	-	376	418
Ring Part No.	830XTY 835XTY 840XTY	955XSY 960XSY 965XSY	960XTY - -	955XTY 960XTY 965XTY	955XSY 960XSY -
Pin Part No.	WP961	WP917	WP946	WP946	WP998
Clip Part No.	CW20	CW22	CW22	CW22	CW22
Kit Price Code	A	G		G	

OPEL



Model	Astra, Corsa, Tigra, Vectra, Zafira 1.6 Ltr. GSI 16V	Astra, Calibra, Kadett, Vectra GSI 2.0 Ltr. 16V Gr. A	Astra, Calibra, Kadett, Vectra GSI 2.0 Ltr. 16V Gr. A 3. Ring	Calibra GSI 2.0 Ltr. 16V Turbo (204 PS)
Kit Part No.	K9141DA K9141D050 K9141D100 - -	K9005DA K9005D050 K9005D100 K9005D150 K9005D200	K9259DA K9259D050 K9259D100 K9259D150 -	K9092DA K9092D050 K9092D100 K9092D150 -
Engine typ	X16XEL / C16XE	C20XE	C20XE	C20LET, Z20LET, Y20LET
Bore size	79.00 79.50 80.00 - -	86.00 86.50 87.00 87.50 88.00	86.00 86.50 87.00 87.50 -	86.00 86.50 87.00 87.50 -
Stroke	81.5	86	86	86
Displacement	1598ccm	1998ccm	1998ccm	1998ccm
Wössner Comp. ratio	11.5:1	12.5:1	12.5:1	8.5:1
OE Comp. ratio	10.5:1	10.5:1	10.5:1	8.8:1
Comp. height	28.2	30.50	30.50	30.43
Rod length	129.75mm	143.1mm	143.1mm	143.1mm
Block height	-	-	-	-
Dome volume	+3.45cm ³	+2.33cm ³	+2.33cm ³	-
Gasket thickness	-	-	-	-
Valve per Cylinder	4	4	4	4
Cylinders	4	4	4	4
Piston weight in grams	268	292	298	328
Ring Part No.	790XDS 795XDS 800XDS - -	860XSY 865XSY 870XSY 875XSY 880XSY	860XSY 865XSY 870XSY 875XSY -	860XTY 865XTY 870XTY 875XTY -
Pin Part No.	WP931	WP951	WP951	WP992
Clip Part No.	CW18	CW21	CW21	CW21
Kit Price Code	A	A	A	A

OPEL



Model	Manta, Ascona CIH 2.0 Ltr. 8V	Manta, Ascona, Frontera, Omega CIH 2.4 Ltr. 8V	Senator, Carlton, Omega EVO500 3.0 Ltr. GSI 24V
Kit Part No.	K9140DA K9140D050 K9140D100 K9140D200	K9006D100 K9006D150 K9006D200 -	K9137DA K9137D050 K9137D100 -
Engine typ	2.0 E	C2.4 NE	C30XEI
Bore size	95.00 95.50 96.00 97.00	96.00 96.50 97.00 -	95.50 96.00 96.50 -
Stroke	69.8	85	69.8
Displacement	1998ccm	2459ccm	2969ccm
Wössner Comp. ratio	10.5:1	12.0:1	12.0:1
OE Comp. ratio	8.5:1	9.2:1	10.5:1
Comp. height	45	31.5	29
Rod length	128mm	134mm	-
Block height	-	-	-
Dome volume	-	+3.77cm ³	+4.7cm ³
Gasket thickness	-	-	-
Valve per Cylinder	2	2	4
Cylinders	4	4	6
Piston weight in grams	506	424	402
Ring Part No.	950XSY 955XSY 960XSY 970XSY	960XSY 965XSY 970XSY -	955XSY 960XSY 965XSY -
Pin Part No.	WP917	WP917	WP992
Clip Part No.	CW22	CW22	CW21
Kit Price Code	A	A	G

PEUGEOT



	106 8V Rally (Combustion chamber need to be adapted at piston dome design)	205 1.3 Ltr. Rally	106 XSI 8V	106 XSI 8V
Model				
Kit Part No.	K9107DA K9107D050 K9107D100 -	K9114DA K9114D050 K9114D100 -	K9108DA K9108D050 K9108D100 -	K9109DA K9109D050 K9109D100 -
Engine typ	TU2J2	TU 2/4	TU3J2	TU3J2
Bore size	75.00 75.50 76.00 -	75.00 75.50 76.00 -	75.00 75.50 76.00 -	75.00 75.50 76.00 -
Stroke	73.2	73	77	77
Displacement	1293ccm	1293ccm	1360ccm	1360ccm
Wössner Comp. ratio	11.5:1	11.5:1	11.4:1	11.7:1
OE Comp. ratio	10.2:1	9.6:1	9.6:1	9.6:1
Comp. height	37	38	41.5	35
Rod lenght	133.5mm	112.3mm	126.8mm	133.5mm
Block height	186.90mm	186.90mm	207mm	207mm
Dome volume	+7.1cm ³	7.16cm ³	+5.6cm ³	+7.3cm ³
Gasket thickness	-	-	-	-
Valve per Cylinder	2	2	2	2
Cylinders	4	4	4	4
Piston weight in grams	240	252	278	248
Ring Part No.	750XDS 755XDS 760XDS -	750XDS 755XDS 760XDS -	750XDS 755XDS 760XDS -	750XDS 755XDS 760XDS -
Pin Part No.	WP931	WP931	WP931	WP996
Clip Part No.	CW18	CW18	CW18	CW20 (19.46)
Kit Price Code	A	A	A	A

PEUGEOT



Model	106 XSI 1.6 Ltr. 8V	106 S16 Kit Car	106 S16	106 S16 Turbo
Kit Part No.	K9110DA K9110D020 K9110D050 K9110D100 -	K9150D020 K9150D050 - - -	K9039DA K9039D020 K9039D050 K9039D100 K9039D150	K9089DA K9089D020 K9089D050 K9089D100 K9089D150
Engine typ	TU5J2	TU5J4	TU5J4	TU5J4
Bore size	78.50 78.75 79.00 80.00 -	78.75 79.00 - - -	78.50 78.75 79.00 79.50 80.00	78.50 78.75 79.00 79.50 80.00
Stroke	82	82	82	82
Displacement	1587ccm	1596ccm	1588ccm	1587ccm
Wössner Comp. ratio	11.8:1	12.7:1	12.0:1	9.0:1
OE Comp. ratio	10.2:1	12.7:1	10.7:1	10.8:1
Comp. height	32.5	28.30	32.50	32.5
Rod length	133.5mm	137.75mm	133.5mm	133.5mm
Block height	207mm	-	-	-
Dome volume	+1.9cm ³	+6.7cm ³	+9.4cm ³	-
Gasket thickness	-	-	-	-
Valve per Cylinder	2	4	4	4
Cylinders	4	4	4	4
Piston weight in grams	270	254	260	284
Ring Part No.	785XDS 787XDS 790XDS 800XDS -	787XDS 790XDS - - -	785XDS 787XDS 790XDS 795XDS 800XDS	785XTZ 787XTZ 790XTZ 795XTZ 800XTZ
Pin Part No.	WP939	WP931	WP996	WP935
Clip Part No.	CW18	CW18	CW20 (19.46)	CW20 (19.46)
Kit Price Code	A	A	A	A

PEUGEOT

	205 GTI 1.6 Ltr. 8V	205 GTI 1.9 Ltr. 8V	205 GTI 1.9 Ltr. S16
Model			
Kit Part No.	K9111DA K9111D050 K9111D100	K9112DA K9112D050 K9112D100	K9113DA K9113D050 K9113D100
Engine typ	XU5JA	XU9JA	XU9JA
Bore size	83.00 83.50 84.00	83.00 83.50 84.00	83.00 83.50 84.00
Stroke	73	88	88
Displacement	1580ccm	1905ccm	1905ccm
Wössner Comp. ratio	12.0:1	11.5:1	11.5:1
OE Comp. ratio	9.8:1	9.6:1	9.2:1
Comp. height	38.25	37	38
Rod length	150.5mm	143mm	143mm
Block height	292.50mm	-	-
Dome volume	-	-7.3cm ³	-
Gasket thickness	-	-	-
Valve per Cylinder	2	2	4
Cylinders	4	4	4
Piston weight in grams	334	320	-
Ring Part No.	830XSY 835XSY 840XSY -	830XSY 835XSY 840XSY -	830XSY 835XSY 840XSY 845XSY
Pin Part No.	WP952	WP952	WP952
Clip Part No.	CW20	CW20	CW20
Kit Price Code	A	A	A

PEUGEOT



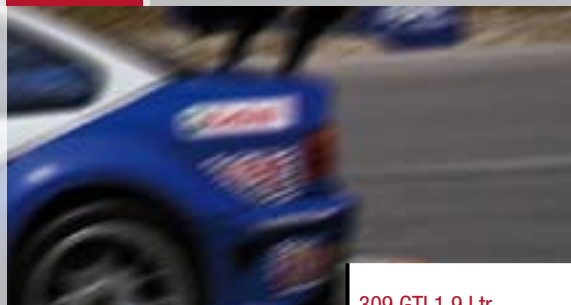
	206 XS 1.6 Ltr. S16	206 XS 1.6 Ltr. S16 Kit Car	206 RC 2.0 Ltr. / GTI 180 (177PS)	206 RC 2.0 Ltr. / GTI 180 Turbo (177PS)
Model				
Kit Part No.	K9177DA K9177D020 K9177D050 K9177D150	K9233D020 - - -	K9190DA K9190D050 - -	K9287DA K9287D050 - -
Engine typ	TU5JP4	TU5JP4	EW10J4RS	EW10J4R
Bore size	78.50 78.75 79.00 80.00	78.70 - - -	85.00 85.50 - -	85.00 85.50 - -
Stroke	82	82	88	88
Displacement	1587ccm	1594ccm	1997ccm	1997ccm
Wössner Comp. ratio	12.2:1	12.7:1	12.5:1	8.3:1
OE Comp. ratio	10.8:1	10.8:1	11.0:1	11.0:1
Comp. height	32.1	28	29.50	29.20
Rod length	133.5mm	137.75mm	139mm	139mm
Block height	207mm	207mm	-	-
Dome volume	+8.72cm ³	+7.6cm ³	+12cm ³	-15cm ³
Gasket thickness	0.7mm	0.7mm	-	-
Valve per Cylinder	4	4	4	4
Cylinders	4	4	4	4
Piston weight in grams	260	243	336	-
Ring Part No.	785XDS 787XDS 790XDS 800XDS	787XDS - - -	850XSY 855XSY - -	850XTY 855XTY - -
Pin Part No.	WP931	WP931	WP934	WP934
Clip Part No.	CW18	CW18	CW21	CW21
Kit Price Code	A	A	A	A

PEUGEOT



Model	Peugeot 306 2.0 Ltr. S16, 405 MI16 (155PS)	Peugeot 306-RS 2.0 Ltr. S16, 306 GTI (167PS)	306 Kit Car EVO 5, 6, 7	Peugeot 306 2.0 Ltr. S16 Turbo (167PS)
Kit Part No.	K9041DA K9041D050 K9041D100	K9181DA K9181D050 K9181D100	K9182DA K9182D050 -	K9203DA K9203D050 K9203D100
Engine typ	XU10J4	XU10J4RS	XU10J4RS-K	XU10J4RS
Bore size	86.00 86.50 87.00	86.00 86.50 87.00	86.00 86.50 -	86.00 86.50 87.00
Stroke	86	86	86	86
Displacement	1998ccm	1998ccm	1998ccm	1998ccm
Wössner Comp. ratio	12.2:1	12.2:1	12.6:1	8.0:1
OE Comp. ratio	10.4:1	10.8:1	-	10.8:1
Comp. height	37	34	29	34
Rod length	152mm	158mm	160mm	158mm
Block height	233mm	235mm	233mm	235mm
Dome volume	+5.9cm ³	+2.8cm ³	+10.3cm ³	-
Gasket thickness	-	-	-	-
Valve per Cylinder	4	4	4	4
Cylinders	4	4	4	4
Piston weight in grams	362	318	294	345
Ring Part No.	860XSY 865XSY 870XSY	860XSY 865XSY 870XSY	860XSY 865XSY -	860XTY 865XTY 870XTY
Pin Part No.	WP909	WP938	WP953	WP909
Clip Part No.	CW22	CW20	CW18	CW22
Kit Price Code	A	A	A	A

PEUGEOT



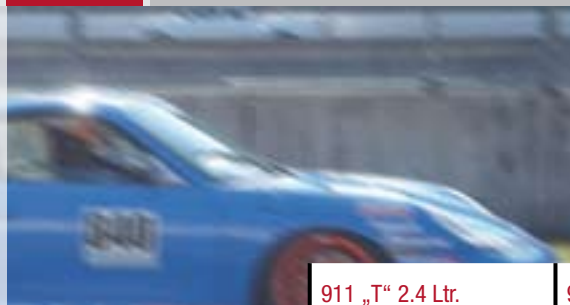
Model	309 GTI 1.9 Ltr. S16, 405 MI16 1.9 Ltr.	309 GTI 1.9 Ltr. S16, 405 MI16 1.9 Ltr. Turbo	405 T16
Kit Part No.	K9042DA K9042D050 K9042D200 -	K9229DA K9229D050 K9229D200 -	K9115DA K9115D050 K9115D100 -
Engine typ	XU9J4	XU9J4	XU10J4TE
Bore size	83.00 83.50 85.00 -	83.00 83.50 85.00 -	86.00 86.50 87.00 -
Stroke	88	88	86
Displacement	1903ccm	1903ccm	1997ccm
Wössner Comp. ratio	11.8:1	8.5:1	8.0:1
OE Comp. ratio	10.4:1	10.4:1	8.0:1
Comp. height	38	38	35.50
Rod lenght	143mm	143mm	152mm
Block height	292.50mm	292.50mm	235mm
Dome volume	+2.45cm ³	-17.5cm ³	-
Gasket thickness	-	-	-
Valve per Cylinder	4	4	4
Cylinders	4	4	4
Piston weight in grams	326	320	354
Ring Part No.	830XSY 835XSY 850XSY -	830XTY 835XTY 850XTY -	860XTY 865XTY 870XTY -
Pin Part No.	WP909	WP946	WP924
Clip Part No.	CW22	CW22	CW23
Kit Price Code	A	A	A

PORSCHE



	356 B, 912, 356 SC Super 90, 90PS 1960-69	911 „E, L“ 2.0 Ltr. 130-140PS 1965-68	911 „T“ 2.2 Ltr. 125PS 1969-71	911 „S“ 2.2 Ltr. 180PS 1969-70
Model				
Kit Part No.	K9015DA K9015D050 K9015D100	K9102DA K9102D050 K9102D100	K9135DA K9135D050 K9135D100	K9103DA K9103D050 K9103D100
Engine typ	616.16, 36	2000	911.03, 05-08	911.02
Bore size	82.50 83.00 83.50	80.00 80.50 81.00	84.00 84.50 85.00	84.00 84.50 85.00
Stroke	74	66	66	66
Displacement	1582ccm	1991ccm	2193ccm	2193ccm
Wössner Comp. ratio	9.5:1	9.0:1	8.5:1	10.5:1
OE Comp. ratio	9.3:1	9.10:1	8.6:1	9.8:1
Comp. height	27	34	34	34
Rod length	136mm	-	-	-
Block height	-	-	-	-
Dome volume	-	-	+29.4cm ³	-
Gasket thickness	-	-	-	-
Valve per Cylinder	2	2	2	2
Cylinders	4	6	6	6
Piston weight in grams	292	325	351	354
Ring Part No.	825XSY 830XSY 835XSY	800XDS 805XDS 810XSY	840XTY 845XTY 850XTY	840XSY 845XSY 850XSY
Pin Part No.	WP917	WP917	WP917	WP917
Clip Part No.	CW22	CW22	CW22	CW22
Kit Price Code	A	G	G	G

PORSCHE



	911 „T“ 2.4 Ltr. 1971-74 (130PS)	911 SC 3.0 Ltr. 1980-83 (204PS)	911 3.2 Ltr. 1983-90	930 3.3 Ltr. Turbo 1977-90
Model				
Kit Part No.	K9134DA K9134D050 K9134D100	K9254DA K9254D300 -	K9255DA K9255D300 -	K9289DA - -
Engine typ	B6	930.10	930.20, 21, 26	M30.66 / B6
Bore size	84.00 84.50 85.00	95.00 98.00 -	95.00 98.00 -	97.00 - -
Stroke	70.5	70.4	74.4	-
Displacement	2341ccm	2993ccm	3164ccm	3299ccm
Wössner Comp. ratio	-	10.5:1	10.5:1	-
OE Comp. ratio	7.5:1	9.8:1	10.3:1	7.0:1
Comp. height	34	34	32.8	32.8
Rod lenght	-	127.80mm	127mm	-
Block height	-	-	-	-
Dome volume	-	+42.2cm ³	+36.5cm ³	-
Gasket thickness	-	-	-	-
Valve per Cylinder	2	2	2	2
Cylinders	6	6	6	6
Piston weight in grams	-	456	432	-
Ring Part No.	840XTY 845XTY 850XTY	950XSY 980XSY -	950XSY 980XSY -	970XTY - -
Pin Part No.	WP917	WP917	WP908	-
Clip Part No.	CW22	CW22	CW23	CW23
Kit Price Code	G	G	G	G

1. Nickasil coated aluminium cylinders
2. Nickasil coated steel liners
3. Narrow con rod

PORSCHE



Model	964 3.6 Ltr. 1989-94	964 to 3.8 Ltr. with Cyl. ¹⁺⁴ 1989-94	965 Turbo to 3.8 Ltr. with Cyl. ¹⁺⁴ 1990-94	993 3.6 Ltr. 1994-98	993 to 3.8 Ltr. with Cyl. ¹⁺³ 1994-98
Kit Part No.	K9017DA	K9017D200	K9196D200	K9016DA	K9016D200
Engine typ	-	-	-	-	-
Cylinder height	-	120mm	120mm	-	120mm
outside dia.	-	107mm	107mm	-	107mm
Bore size	100.00	102.00	102.00	100.00	102.00
Stroke	76.4	76.4	76.4	76.4	76.4
Displacement	3598ccm	3743ccm	3743ccm	3598ccm	3743ccm
Wössner Comp. ratio	11.8:1	11.8:1	8.2:1	11.8:1	11.8:1
OE Comp. ratio	11.3:1	11.3:1	7.5:1	11.3:1	11.3:1
Comp. height	31.7	31.7	31.7	31.7	31.7
Rod length	127mm	127mm	127mm	127mm	127mm
Block height	-	-	-	-	-
Dome volume	+40.16cm ³	+40.16cm ³	-	+40.16cm ³	+40.16cm ³
Gasket thickness	-	-	-	-	-
Valve per Cylinder	2	2	2	2	2
Cylinders	6	6	6	6	6
Piston weight in grams	460	440	443	461	443
Ring Part No.	1000XSY	1020 KOE	1020 KOE	1000XSY	1020 KOE
Pin Part No.	WP908	WP908	WP908	WP908	WP908
Clip Part No.	C23x1.6	C23x1.6	C23x1.6	C23x1.6	C23x1.6
Kit Price Code	G	H	H	G	H

1. Nickasil coated aluminium cylinders
2. Nickasil coated steel liners
3. Narrow con rod
4. Wide con rod

9ff Porsche V400,
one of the world fastest non racing car:
388 km/h (241 mph).



PORSCHE



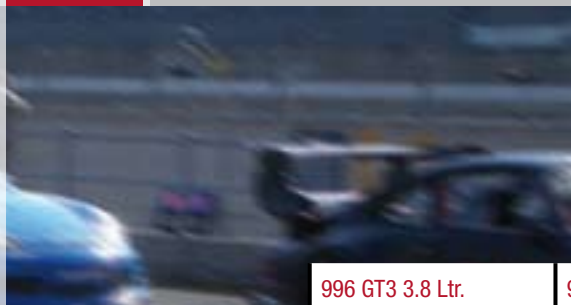
Model	993 TT, GT2 3.6 Ltr. 1995-98	993 Turbo to 3.8 Ltr. with Cyl. 1+3 (Turbo 1995-98, GT2 1996-98)	996 TT, GT2 to 3.8 Ltr. with Liner 2001-05	996 TT, GT2 to 3.8 Ltr. with Liner 2001-05	997 GT2 to 3.8 Ltr. with Liner 2007 up
Kit Part No.	K9018DA	K9018D200	K9256D200	K9260D200	K9281D200
Engine typ	-	-	-	-	-
Cylinder height	-	-	-	-	-
outside dia.	-	-	-	-	-
Bore size	100.00	102.00	102.00	102.00	102.00
Stroke	76.4	76.4	76.4	76.4	76.4
Displacement	3743ccm	3743ccm	3743ccm	3743ccm	3743ccm
Wössner Comp. ratio	-	-	8.5:1	9.4:1	8.5:1
OE Comp. ratio	8.0:1	8.0:1	9.4:1	9.4:1	9.0:1
Comp. height	31.6	31.6	33.1	33.1	-
Rod length	127mm	127mm	127mm	127mm	-
Block height	-	-	-	-	-
Dome volume	-	-	-28.4cm ³	-20cm ³	-
Gasket thickness	-	-	-	-	-
Valve per Cylinder	4	4	4	4	4
Cylinders	6	6	6	6	6
Piston weight in grams	-	453	455	453	-
Ring Part No.	1000XSY	1020 KOE	1020 KOE	1020 KOE	1020 KOE
Pin Part No.	WP947	WP947	WP947	WP947	-
Clip Part No.	C23x1.6	C23x1.6	C23x1.6	C23x1.6	-
Kit Price Code	G	H	H	H	H

1. Nickasil coated aluminium cylinders
2. Nickasil coated steel liners
3. Narrow con rod
4. Wide con rod



9ff Porsche GT9,
high speed world record in Nardo (Italy):
409 km/h (254,1 mph)

PORSCHE



Model	996 GT3 3.8 Ltr. with Liners 1999-2001 (360PS)	996 GT3 RS 3.8 Ltr. with Liners 2002-05 (381PS)	997 GT3 RS 3.8 Ltr. with Liners 2006 up (415PS)	997 GT3 RSR 3.8 Ltr. with Liners 2006 up
Kit Part No.	K9025D200	K9257D200	K9268D200	K9235D200
Engine typ	-	-	-	-
Cylinder height	-	-	-	-
outside dia.	-	-	-	-
Bore size	102.00	102.00	102.00	-
Stroke	76.4	76.4	76.4	76.4
Displacement	3743ccm	3743ccm	3743ccm	-
Wössner Comp. ratio	12.7:1	12.7:1	12.7:1	13.5:1
OE Comp. ratio	11.7:1	11.7:1	12.0:1	-
Comp. height	32.2	30.1	30.1	-
Rod lenght	127mm	130.5mm	130.5mm	127mm
Block height	-	-	-	-
Dome volume	-	+0.41cm ³	-0.82cm ³	-
Gasket thickness	-	-	-	-
Valve per Cylinder	4	4	4	4
Cylinders	6	6	6	6
Piston weight in grams	414	427	-	-
Ring Part No.	1020 KOE	1020 KOE	1020 KOE	1020 KOE
Pin Part No.	WP909	WP909	WP909	WP909
Clip Part No.	C22x1.6	C22x1.6	C22x1.6	C22x1.6
Kit Price Code	H	H	H	H

1. Nickasil coated aluminium cylinders
2. Nickasil coated steel liners
3. Narrow con rod
4. Wide con rod

9ff Porsche TRC-85,
the world fastest cabrio:
380,5 km/h (236,4 mph)



RENAULT



	Alpine 1300, R8 Gordini 1300	Alpine 1600, R12 Gordini	R5 Alpine	R5 Turbo 1 / Turbo 2
Model				
Kit Part No.	K9118DA K9118D050 K9118D120 - -	K9185DA K9185D080 K9185D100 K9185D300 -	K9117DA K9117D060 K9117D100 K9117D200 K9117D400	K9116DA K9116D100 K9116D200 - -
Engine typ	812-00	807-12, 807-G, 803-32	840-25	840-30
Bore size	74.50 75.00 75.70* - -	77.00 77.80* 78.00 80.00 -	76.00 76.60* 77.00 78.00 80.00	76.00 77.00 78.00 - -
Stroke	72	84	77	77
Displacement	1255ccm	1565ccm	1397ccm	1397ccm
Wössner Comp. ratio	12.5:1	11.5:1	11.0:1	7.0:1
OE Comp. ratio	9.8:1	10.25:1	10.0:1	7.0:1
Comp. height	35	39	37.8	35.60
Rod length	133mm	137mm	128mm	128mm
Block height	204mm	-	-	-
Dome volume	-	+23.1cm ³	+6.6cm ³	+6cm ³
Gasket thickness	-	-	-	-
Valve per Cylinder	2	2	2	2
Cylinders	4	4	4	4
Piston weight in grams	252	314	286	302
Ring Part No.	745XDS 750XDS 760XDS* - -	770XDS 780XDS* 780XDS 800XDS -	760XDS 770XDS* 770XDS 780XDS 800XDS	760XTZ 770XTZ 780XTZ
Pin Part No.	WP938	WP951	WP938	WP952
Clip Part No.	CW20	CW21	CW20	CW20
Kit Price Code	A	A	A	A

* Rings need to be shortened / Ringe müssen gekürzt werden

RENAULT



Model	R5 Alpine Turbo	R5 GT Turbo, Super 5 GT Turbo, R11 Turbo
Kit Part No.	K9040DA K9040D060 K9040D100 K9040D200 K9040D400	K9186DA K9186D060 K9186D100 K9186D200 -
Engine typ	C6J726	C1J760, C1J782
Bore size	76.00 76.60* 77.00 78.00 80.00	76.00 76.60* 77.00 78.00 -
Stroke	77	77
Displacement	1397ccm	1397ccm
Wössner Comp. ratio	7.5:1	8.0:1
OE Comp. ratio	8.6:1	8.0:1
Comp. height	37.5	37.5
Rod length	128mm	128mm
Block height	-	-
Dome volume	Flat	+1.8cm ³
Gasket thickness	-	-
Valve per Cylinder	2	2
Cylinders	4	4
Piston weight in grams	308	306
Ring Part No.	760XTZ 770XTZ* 770XTZ 780XTZ 800XTZ	760XTZ 770XTZ* 770XTZ 780XTZ -
Pin Part No.	WP952	WP952
Clip Part No.	CW20	CW20
Kit Price Code	A	A

* Rings need to be shortened / Ringe müssen gekürzt werden

RENAULT

Model	Clio 1.6 Ltr. 16S	Clio 1.8 Ltr. 16S, R19 16S	Clio 1.8 Ltr. 16S Turbo, R19 16S Turbo
Kit Part No.	K9211DA K9211D050 K9211D100	K9104DA K9104D050 K9104D100	K9200DA K9200D050 K9200D100
Engine typ	K4M	F7P	F7P
Bore size	79.50 80.00 80.50	82.00 82.50 83.00	82.00 82.50 83.00
Stroke	80.50	83.5	83.5
Displacement	1598ccm	1764ccm	1764ccm
Wössner Comp. ratio	12.7:1	12.0:1	8.0:1
OE Comp. ratio	10:1	10.0:1	10.0:1
Comp. height	31.70	35.50	35.50
Rod lenght	128mm	144mm	144mm
Block height	199.95mm	-	-
Dome volume	+7.1cm ³	-	-
Gasket thickness	0.9	-	-
Valve per Cylinder	4	4	4
Cylinders	4	4	4
Piston weight in grams	276	296	302
Ring Part No.	795XDS 800XDS 805XDS	820XSY 825XSY 830XSY	820XTY 825XTY 830XTY
Pin Part No.	WP954	WP934	WP934
Clip Part No.	CW18	CW21	CW21
Kit Price Code	A	A	A

RENAULT



Model	Clio RS, 172, 182, 2000-06	Clio RS Turbo, 172, 182, 2000-06	Clio RS Maxi 172, 182, 2000-06	R21 2.0 Ltr. Turbo	R21 2.0 Ltr. Turbo Europa Cup
Kit Part No.	K9045DA K9045D030 K9045D130	K9136DA K9136D030 -	K9230DA K9230D030 -	K9090DA K9090D050 -	K9189DA -
Engine typ	F4R	F4R	F4R	J7R752	J7R752
Bore size	82.70 83.00 84.00	82.70 83.00 -	82.70 83.00 -	88.00 88.50 -	88.00 - -
Stroke	93	93	93	82	82
Displacement	1998ccm	1998ccm	1998ccm	1998ccm	1998ccm
Wössner Comp. ratio	12.8:1	8.5:1	13.3:1	8.0:1	8.0:1
OE Comp. ratio	11.0:1	11.0:1	11.0:1	8.0:1	8.0:1
Comp. height	30.20	30.20	30.20	40.50	38.70
Rod lenght	144mm	144mm	144mm	137mm	137mm
Block height	280.2mm	280.2mm	280.2mm	-	-
Dome volume	+3.35cm ³	-	+4.7cm ³	-	-
Gasket thickness	-	-	-	-	-
Valve per Cylinder	4	4	4	4	4
Cylinders	4	4	4	4	4
Piston weight in grams	270	280	294	441	-
Ring Part No.	827XSY 830XSY 840XSY	827XTY 830XTY -	827XSY 830XSY -	880XTY 885XTY -	880XTY - -
Pin Part No.	WP951	WP934	WP913	WP922	WP922
Clip Part No.	CW21	CW21	CW21	CW24	CW24
Kit Price Code	A	A	A	A	A

RENAULT

Model	Clio 2.0 Ltr. S16 Williams, Megane 2.0 Ltr. S16	Clio 2.0 Ltr. S16 Williams Gr. A, Megane 2.0 Ltr. S16 Gr. A	Clio 2.0 Ltr. S16 Williams Turbo, Megane 2.0 Ltr. S16 Turbo	Clio, Megane Maxi
Kit Part No.	K9034DA K9034D030 K9034D080 K9034D130	K9037DA K9037D030 K9037D130 -	K9133DA K9133D030 K9133D130 -	K9187DA K9187D050 - -
Engine typ	F7R	F7R	F7R	F7RR
Bore size	82.70 83.00 83.50 84.00	82.70 83.00 84.00 -	82.70 83.00 84.00 -	84.00 84.50 - -
Stroke	93	93	93	90
Displacement	1998ccm	1998ccm	1998ccm	1998ccm
Wössner Comp. ratio	11.2:1	12.5:1	8.5:1	12.7:1
OE Comp. ratio	10.0:1	10.0:1	10.0:1	-
Comp. height	30.7	30.7	30.7	25
Rod lenght	144mm	144mm	144mm	150mm
Block height	-	-	-	-
Dome volume	+4.35cm ³	+4.5cm ³	-13.4cm ³	+12.6cm ³
Gasket thickness	-	-	-	-
Valve per Cylinder	4	4	4	4
Cylinders	4	4	4	4
Piston weight in grams	294	293	288	276
Ring Part No.	827XSY 830XSY 835XSY 840XSY	827XSY 830XSY 840XSY -	827XTY 830XTY 840XTY -	840XSY 845XSY - -
Pin Part No.	WP934	WP934	WP992	WP931
Clip Part No.	CW21	CW21	CW21	CW18
Kit Price Code	A	A	A	A

ROVER



	Metro, 100, 200, 25, 400, 45, Streetwise 1.4 Ltr. 16V	200, 25, 45, Streetwise, 75 1.8 Ltr. 16V	220, 420, 620, 820 2.0 Ltr. 16V Turbo
Model			
Kit Part No.	K9221DA K9221D050 K9221D100 -	K9222DA K9222D050 K9222D100 -	K9231DA K9231D050 K9231D100 K9231D150
Engine typ	14K4F	18K4F	T16
Bore size	75.00 75.50 76.00 -	80.00 80.50 81.00 -	84.50 85.00 85.50 86.00
Stroke	79	89.3	89
Displacement	1395ccm	1796ccm	1994ccm
Wössner Comp. ratio	12.5:1	12.0:1	8.0:1
OE Comp. ratio	10.3:1	10.5:1	8.5:1
Comp. height	22.50	24.46	31.30
Rod lenght	139.40mm	113.10mm	160mm
Block height	-	-	-
Dome volume	-	-	-
Gasket thickness	-	-	-
Valve per Cylinder	4	4	4
Cylinders	4	4	4
Piston weight in grams	218	253	326
Ring Part No.	750XDS 755XDS 760XDS -	800XDS 805XDS 810XSY -	845XTY 850XTY 855XTY 860XTY
Pin Part No.	WP931	WP931	WP992
Clip Part No.	CW18	CW18	CW21
Kit Price Code	A	A	A

SAAB



	900, 9 - 3 2.0 Ltr. 16V Turbo	9 - 5 2.3 Ltr. 16V Turbo	9000 2.3 Ltr. 16V Turbo
Model			
Kit Part No.	K9120DA K9120D050 K9120D100	K9119DA K9119D050 K9119D100	K9214DA K9214D050 K9214D100
Engine typ	B205E, F	B235E	B234E, L, R
Bore size	90.00 90.50 91.00	90.00 90.50 91.00	90.00 90.50 91.00
Stroke	78	90	90
Displacement	1985ccm	2290ccm	2290ccm
Wössner Comp. ratio	9.25:1	9.25:1	8.5:1
OE Comp. ratio	9.25:1	9.25:1	9.25:1
Comp. height	32.2	32.90	40.30
Rod length	-	-	-
Block height	-	-	-
Dome volume	-	-	-
Gasket thickness	-	-	-
Valve per Cylinder	4	4	4
Cylinders	4	4	4
Piston weight in grams	380	370	426
Ring Part No.	900XTY 905XTY 910XTY	900XTY 905XTY 910XTY	900XTY 905XTY 910XTY
Pin Part No.	WP922	WP922	WP922
Clip Part No.	CW24	CW24	CW24
Kit Price Code	A	A	A

SEAT



	Cordoba, Ibiza 2.0 Ltr. 8V (115 PS)	Cordoba, Ibiza 2.0 Ltr. 16V (150PS)	Cordoba, Ibiza 2.0 Ltr. 16V Turbo (150PS)
Model			
Kit Part No.	K9054DA K9054D020 K9054D050 K9054D100 K9054D150	K9032DA K9032D020 K9032D050 K9032D100 K9032D150	K9204DA K9204D050 K9204D100 - -
Engine typ	2E	ABF	ABF
Bore size	82.50 82.70 83.00 83.50 84.00	82.50 82.70 83.00 83.50 84.00	82.50 83.00 83.50 - -
Stroke	92.8	92.8	92.8
Displacement	1983ccm	1983ccm	1983ccm
Wössner Comp. ratio	12.3:1	12.4:1	8.0:1
OE Comp. ratio	10.5:1	10.5:1	10.5:1
Comp. height	30.90	31.6	31.6
Rod length	159mm	159mm	159mm
Block height	236mm	-	-
Dome volume	-6.6cm ³	+12.6cm ³	-
Gasket thickness	1.65	-	-
Valve per Cylinder	2	4	4
Cylinders	4	4	4
Piston weight in grams	290	310	297
Ring Part No.	825XSY 827XSY 830XSY 835XSY 840XSY	825XSY 827XSY 830XSY 835XSY 840XSY	825XTY 830XTY 835XTY - -
Pin Part No.	WP934	WP934	WP934
Clip Part No.	CW21	CW21	CW21
Kit Price Code	A	A	A

SEAT



Model	Leon, Alhambra 2.8 Ltr. V6 24V Turbo	Leon, Toledo 1.8 Ltr. 20V Turbo (180PS)	Leon 2.0 Ltr. 16V T FSI Turbo
Kit Part No.	K9097DA K9097D050 K9097D100 -	K9145DA K9145D050 K9145D100 K9145D150	K9213DA K9213D050 K9213D100 -
Engine typ	AUE, AYL	AJQ, APP, ARY, AUQ	M1
Bore size	81.00 81.50 82.00 -	81.00 81.50 82.00 82.50	82.50 83.00 83.50 -
Stroke	90.3	86.4	92.8
Displacement	2792ccm	1781ccm	1984ccm
Wössner Comp. ratio	8.5:1	8.5:1	9.2:1
OE Comp. ratio	10.75:1	9.5:1	10.5:1
Comp. height	37.45	32.7	29.5
Rod length	164mm	144mm	144mm
Block height	-	-	-
Dome volume	+2.45cm ³	-6.3cm ³	-5.38cm ³
Gasket thickness	-	-	-
Valve per Cylinder	4	5	4
Cylinders	6	4	4
Piston weight in grams	336	292	334
Ring Part No.	810XTY 815XTY 820XTY -	810XTY 815XTY 820XTY 825XTY	825XTY 830XTY 835XTY 825XTY
Pin Part No.	WP961	WP926	WP961
Clip Part No.	CW20	CW19	CW20
Kit Price Code	G	A	A

SUBARU



Model	Impreza (22B), Legacy Turbo 1991-94	Impreza RS, Forester, Legacy 1997-2004	Impreza RS, Forester, Legacy 1997-2004
Kit Part No.	K9132DA K9132D050 K9132D100	K9051DA K9051D050 K9051D100	K9052DA K9052D050 K9052D100
Engine typ	EJ22	EJ25 SOHC	EJ25 DOHC
Bore size	97.00 97.50 98.00	99.50 100.00 100.50	99.50 100.00 100.50
Stroke	75	79	79
Displacement	2238ccm	2455ccm	2455ccm
Wössner Comp. ratio	8.0:1	8.0:1	8.0:1
OE Comp. ratio	8.0:1	10.0:1	10.0:1
Comp. height	33.25	29.5	30.25
Rod length	130.5mm	131.6mm	131.6mm
Block height	201mm	201mm	201mm
Dome volume	-	-28.65cm ³	-25.3cm ³
Gasket thickness	1.37	1.37	1.37
Valve per Cylinder	4	2	2
Cylinders	4	4	4
Piston weight in grams	410	384	395
Ring Part No.	970XTY 975XTY 980XTY	995XTY 1000XTY 1005XTY	995XTY 1000XTY 1005XTY
Pin Part No.	WP994	WP924	WP924
Clip Part No.	CA23x1.6	CA23x1.6	CA23x1.6
Kit Price Code	A	A	A

SUBARU



Model	Impreza WRX Version 1, 2, 3, 4 1992-98	Impreza WRX Version 1, 2, 3, 4 1992-98 Stroker Kit	Impreza WRX Version 5, 6 1998-2000
Kit Part No.	K9129DA K9129D050 K9129D100	K9248D050 - -	K9130DA K9130D050 K9130D100
Engine typ	EJ20	EJ20	EJ20, EJ205
Bore size	92.00 92.50 93.00	92.50 - -	92.00 92.50 93.00
Stroke	75	79	75
Displacement	1993ccm	2123ccm	1993ccm
Wössner Comp. ratio	8.0:1	8.0:1	8.0:1
OE Comp. ratio	8.3:1	8.3:1	8.35:1
Comp. height	33.40	32	32.70
Rod length	130.5mm	130.5mm	130.5mm
Block height	201mm	201mm	201mm
Dome volume	-16.8cm ³	-	-
Gasket thickness	-	-	1.37
Valve per Cylinder	4	4	4
Cylinders	4	4	4
Piston weight in grams	338	-	354
Ring Part No.	920XTY 925XTY 930XTY	925XTY - -	920XTY 925XTY 930XTY
Pin Part No.	WP994	WP994	WP994
Clip Part No.	CA23x1.6	CA23x1.6	CA23x1.6
Kit Price Code	A	A	A

SUBARU



	Impreza WRX Version 5, 6 1998-2000 Stroker Kit	Impreza WRX STI Version 7-8 2000-03	Impreza WRX STI Version 7-8 2000-03 Stroker Kit
Model			
Kit Part No.	K9249D050 - -	K9050DA K9050D050 K9050D100	K9250D050 - -
Engine typ	EJ20, EJ205	EJ205	EJ205
Bore size	92.50 - -	92.00 92.50 93.00	92.50 - -
Stroke	79	75	79
Displacement	2286ccm	1993ccm	2286ccm
Wössner Comp. ratio	8.0:1	8.0:1	8.0:1
OE Comp. ratio	8.35:1	8.0:1	8.0:1
Comp. height	30.70	30.7	28.70
Rod lenght	130.5mm	130.5mm	130.5mm
Block height	201mm	201mm	201mm
Dome volume	-	-9.1cm ³	-
Gasket thickness	1.37	-	-
Valve per Cylinder	4	4	4
Cylinders	4	4	4
Piston weight in grams	-	354	-
Ring Part No.	925XTY - -	920XTY 925XTY 930XTY	925XTY - -
Pin Part No.	WP994	WP924	WP924
Clip Part No.	CA23x1.6	CA23x1.6	CA23x1.6
Kit Price Code	A	A	A

SUBARU



Model	Impreza WRX STI Version 9 2003 up	U.S. Impreza WRX STI 2004-06	U.S. Impreza WRX STI 2004-06 Stroker Kit
Kit Part No.	K9223DA K9223D050 K9223D100	K9131DA K9131D050 K9131D100	K9263D050 - -
Engine typ	EJ205	EJ257	EJ257
Bore size	92.00 92.50 93.00	99.50 100.00 100.50	100.00 - -
Stroke	75	79	79
Displacement	1993ccm	2455ccm	2482ccm
Wössner Comp. ratio	8.0:1	8.0:1	8.0:1
OE Comp. ratio	8.0:1	8.2:1	8.2:1
Comp. height	31.50	30.7	31
Rod lenght	130.5mm	130.5mm	130.50mm
Block height	-	201mm	201mm
Dome volume	-6.4cm ³	-25.3cm ³	-
Gasket thickness	-	1.37	1.37
Valve per Cylinder	4	4	4
Cylinders	4	4	4
Piston weight in grams	360	403	-
Ring Part No.	920XTY 925XTY 930XTY	995XTY 1000XTY 1050XTY	1000XTY - -
Pin Part No.	WP994	WP924	WP924
Clip Part No.	CA23x1.6	CA23x1.6	CA23x1.6
Kit Price Code	A	A	A

TOYOTA



	Celica, MR2 1.6 Ltr. 16V 1988-92	Celica, MR2 1.6 Ltr. 16V 1988-92	Celica, MR2 1.6 Ltr. 16V 1988-92	Corolla 1.8 Ltr. Turbo 1982-86
Model				
Kit Part No.	K9035DA K9035D050 K9035D100	K9278DA K9278D050 K9278D100	K9191DA K9191D050 K9191D100	K9192DA K9192D100 K9192D200
Engine typ	4AGE	4AGE	4AGE	3TC
Bore size	81.00 81.50 82.00	81.00 81.50 82.00	81.00 81.50 82.00	86.00 87.00 88.00
Stroke	77	77	77	78
Displacement	1586ccm	1586ccm	1586ccm	1811ccm
Wössner Comp. ratio	11.8:1	11.8:1	11.8:1	7.7:1
OE Comp. ratio	10.0:1	10.0:1	10.0:1	7.4:1
Comp. height	30.7	30.7	30.7	35
Rod lenght	122mm	122mm	122mm	122.8mm
Block height	-	-	-	-
Dome volume	-	-	-	-
Gasket thickness	0.76	0.76	0.76	1.01mm
Valve per Cylinder	4	4	4	2
Cylinders	4	4	4	4
Piston weight in grams	274	-	280	-
Ring Part No.	810XSY 815XSY 820XSY	810XSY 815XSY 820XSY	810XSY 815XSY 820XSY	860XTY 870XTY 880XTY
Pin Part No.	WP952	WP926	WP954	WP946
Clip Part No.	CW20	CW19	CW18	CW22
Kit Price Code	A	A	A	A

TOYOTA



Model	Corolla 1.8 Ltr. 1982-86	Celica, MR2 2.0 Ltr. 16V 1989-95	Celica, MR2 2.0 Ltr. 16V Turbo
Kit Part No.	K9193DA K9193D100 K9193D200	K9179DA K9179D050 K9179D100	K9036DA K9036D050 K9036D100
Engine typ	3TC	3SGE	3SG
Bore size	86.00 87.00 88.00	86.00 86.50 87.00	86.00 86.50 87.00
Stroke	78	86	86
Displacement	1812ccm	1997ccm	1997ccm
Wössner Comp. ratio	10.9:1	12.4:1	8.0:1
OE Comp. ratio	10.2:1	10.5:1	9.0:1
Comp. height	35	35	35
Rod lenght	122.8mm	138mm	138mm
Block height	-	-	-
Dome volume	-	+10.4cm ³	-8.22cm ³
Gasket thickness	-	-	-
Valve per Cylinder	2	4	4
Cylinders	4	4	4
Piston weight in grams	-	366	346
Ring Part No.	860XSY 870XSY 880XSY	870XSY 875XSY 880XSY	870XTY 875XTY 880XTY
Pin Part No.	WP946	WP917	WP917
Clip Part No.	CW22	CW22	CW22
Kit Price Code	A	A	A

TOYOTA



Model	Celica, MR2 2.0 Ltr. 16V Turbo 1986-95	Supra 3.0Ltr. Turbo 1986-92	Supra 3.0Ltr. Turbo 1993-98	Starlet GT Turbo Glanza S, V
Kit Part No.	K9055DA K9055D050 K9055D100	K9056DA K9056D050 K9056D100	K9057D050 K9057D100 -	K9072DA K9072D050 K9072D100
Engine typ	3SGTE	7MGTE	2JZGTE	4E-FTE
Bore size	86.00 86.50 87.00	83.00 83.50 84.00	86.50 87.00 -	74.00 74.50 75.00
Stroke	86	91	86	77.40
Displacement	1997ccm	2954ccm	3030ccm	1331ccm
Wössner Comp. ratio	8.0:1	8.0:1	8.0:1	8.0:1
OE Comp. ratio	8.5:1	8.4:1	8.5:1	8.2:1
Comp. height	35	33	34	30
Rod lenght	138mm	152mm	142mm	-
Block height	216mm	230.50mm	219mm	-
Dome volume	-14.8cm ³	-23.3cm ³	-	-
Gasket thickness	1.42	1.2	1.42	-
Valve per Cylinder	4	4	4	4
Cylinders	4	6	6	4
Piston weight in grams	354	320	362	244
Ring Part No.	860XTY 865XTY 870XTY	830XTY 835XTY 840XTY	865XTY 870XTY -	740XDS 745XDS 750XDS
Pin Part No.	WP946	WP946	WP946	WP942
Clip Part No.	CW22	CW22	CW22	CW18
Kit Price Code	A	G	G	A

VW

	Golf 1 GTI 1.6 Ltr. 8V	Golf 1 GTI 1.8 Ltr. 8V Golf 2 GTI 1.8 Ltr. 8V
Model		
Kit Part No.	K9180DA K9180D050 K9180D100 K9180D150 - -	K9028DA K9028D050 K9028D100 K9028D150 K9028D200 K9028D250
Engine typ	EG	EV / PB / GU / PF
Bore size	79.50 80.00 80.50 81.00 - -	81.00 81.50 82.00 82.50 83.00 83.50
Stroke	80	86.4
Displacement	1588ccm	1799ccm
Wössner Comp. ratio	11.6:1	11.3:1 / 12.3:1*
OE Comp. ratio	9.5:1	9.0:1 / 10.0:1*
Comp. height	40.7	32.2
Rod lenght	136mm	144mm
Block height	-	220mm
Dome volume	-	-
Gasket thickness	-	1.65
Valve per Cylinder	2	2
Cylinders	4	4
Piston weight in grams	316	288
Ring Part No.	795XDS 800XDS 805XDS 810XSY - -	810XSY 815XSY 820XSY 825XSY 830XSY 835XSY
Pin Part No.	WP917	WP952
Clip Part No.	CW22	CW20
Kit Price Code	A	A

* Engines and pistons are identical. Different Cylinder Head's produce different comp. Ratios. /
Motoren und Kolben sind identisch. Durch unterschiedliche Zylinderköpfe ergeben sich unterschiedliche Verdichtungsverhältnisse.



Model	Golf 2 GTI, Scirocco, Corrado 1.8 Ltr. 16V (136PS)	Golf 2 GTI, Scirocco, Corrado 1.8 Ltr. 16V Turbo	Golf 2, Corrado 1.8 Ltr. 8V G60	Polo G40
Kit Part No.	K9029DA K9029D050 K9029D100 K9029D150 K9029D200 K9029D250	K9201DA K9201D050 K9201D100 K9201D150 K9201D200 K9201D250	K9106DA K9106D050 K9106D100 K9106D150 K9106D200 -	K9096DA K9096D050 K9096D100 K9096D200 - -
Engine typ	KR, PL	KR, PL	PG	PY
Bore size	81.00 81.50 82.00 82.50 83.00 83.50	81.00 81.50 82.00 82.50 83.00 83.50	81.00 81.50 82.00 82.50 83.00 -	75.00 75.50 76.00 77.00 - -
Stroke	86.4	86.4	86.4	72
Displacement	1779ccm	1779ccm	1781ccm	1272ccm
Wössner Comp. ratio	12.7:1	8.0:1	8.0:1	8.0:1
OE Comp. ratio	10.0:1	10.0:1	8.0:1	8.0:1
Comp. height	33.4	33.4	39.50	40
Rod length	144mm	144mm	136mm	-
Block height	220mm	220mm	-	-
Dome volume	+11cm ³	-12.3cm ³	-16.1cm ³	-
Gasket thickness	-	-	-	-
Valve per Cylinder	4	4	2	2
Cylinders	4	4	4	4
Piston weight in grams	320	306	362	294
Ring Part No.	810XSY 815XSY 820XSY 825XSY 830XSY 835XSY	810XTY 815XTY 820XTY 825XTY 830XTY 835XTY	810XTY 815XTY 820XTY 825XTY 830XTY -	750XTZ 755XTZ 760XTZ 770XTZ - -
Pin Part No.	WP952	WP961	WP946	WP952
Clip Part No.	CW20	CW20	CW22	CW20
Kit Price Code	A	A	A	A




Model	Golf 3, Corrado, Passat, Vento 2.0 Ltr. 8V (115PS)	Corrado, Passat 2.0 Ltr. 16V (136PS)	Corrado, Passat 2.0 Ltr. 16V Turbo (136PS)	Golf 5 2.0 Ltr. 16V T FSI Turbo	2.0 Ltr. 20V None Turbo (Racing Version)
Kit Part No.	K9054DA K9054D020 K9054D050 K9054D100 K9054D150	K9031DA K9031D020 K9031D050 K9031D100 K9031D150	K9205DA K9205D050 K9205D100 - -	K9213DA K9213D050 K9213D100 - -	K9270DA K9270D020 - - -
Engine typ	2E	9A	9A	AXX	AEB, AGN, ALT
Bore size	82.50 82.70 83.00 83.50 84.00	82.50 82.70 83.00 83.50 84.00	82.50 83.00 83.50 - -	82.50 83.00 83.50 - -	82.50 82.70 - - -
Stroke	92.8	92.8	92.8	92.8	92.8
Displacement	1983ccm	1983ccm	1983ccm	1983ccm	1983ccm
Wössner Comp. ratio	12.3:1	12.3:1	8.0:1	9.2:1	12.3:1
OE Comp. ratio	10.4:1	10.7:1	10.7:1	10.5:1	8.9:1
Comp. height	30.9	30.2	30.2	29.50	29.5
Rod lenght	159mm	144mm	144mm	144mm	144m
Block height	236mm	-	-	-	220mm
Dome volume	-6.6cm ³	+12.68cm ³	-	-5.38cm ³	10.7cm ³
Gasket thickness	1.65	-	-	-	-
Valve per Cylinder	2	4	4	4	5
Cylinders	4	4	4	4	4
Piston weight in grams	290	308	282	334	295
Ring Part No.	825XSY 827XSY 830XSY 835XSY 840XSY	825XSY 827XSY 830XSY 835XSY 840XSY	825XTY 830XTY 835XTY - -	825XTY 830XTY 835XTY - -	825XSY 827XSY - - -
Pin Part No.	WP934	WP952	WP961	WP961	WP952
Clip Part No.	CW21	CW20	CW20	CW20	CW20
Kit Price Code	A	A	A	A	A



Model	Golf 3, Vento, Passat, GTI 2.0 Ltr. 16V (150PS)	Golf 3, Vento, Passat, GTI 2.0 Ltr. 16V Turbo (150PS)	Golf 4 V6 4-Motion Turbo (204PS)	Bora, Golf, New Beetle, Passat V 5 20V Turbo (170PS)	Golf 4 R32 Turbo
Kit Part No.	K9032DA K9032D020 K9032D050 K9032D100 K9032D150	K9204DA K9204D050 K9204D100 - -	K9097DA K9097D050 K9097D100 - -	K9097DA K9097D050 K9097D100 - -	K9094DA K9094D050 K9094D100 - -
Engine typ	ABF	ABF	AQP, BDE, AMV, AQP, AUE, AYL, BDE	AQN, AZX	BFH, BML, BJS
Bore size	82.50 82.70 83.00 83.50 84.00	82.50 83.00 83.50 - -	81.00 81.50 82.00 - -	81.00 81.50 82.00 - -	84.00 84.50 85.00 - -
Stroke	92.8	92.8	90.3	90.3	95.9
Displacement	1983ccm	1983ccm	2790ccm	2325ccm	3188ccm
Wössner Comp. ratio	12.4:1	8.0:1	8.5:1	8.5:1	9.0:1
OE Comp. ratio	10.4:1	10.4:1	10.75:1	10.75:1	11.70:1
Comp. height	31.6	31.6	35.10	35.10	29.5
Rod length	159mm	159mm	164mm	164mm	164mm
Block height	-	-	-	-	-
Dome volume	+12.6cm ³	-	+2.45cm ³	+2.45cm ³	-0.8cm ³
Gasket thickness	-	-	-	-	-
Valve per Cylinder	4	4	4	4	4
Cylinders	4	4	6	5	6
Piston weight in grams	310	297	336	336	312
Ring Part No.	825XSY 827XSY 830XSY 835XSY 840XSY	825XTY 830XTY 835XTY - -	810XTY 815XTY 820XTY - -	810XTY 815XTY 820XTY - -	840XTY 845XTY 850XTY - -
Pin Part No.	WP934	WP992	WP961	WP961	WP961
Clip Part No.	CW21	CW21	CW20	CW20	CW20
Kit Price Code	A	A	G	C	G



Model	Passat, Beetle, Sharan 1.8 Ltr. 20V Turbo	Passat, Beetle, Sharan 1.8 Ltr. 20V Turbo	1.8 Ltr. 20V None Turbo (Racing Version)
Kit Part No.	K9075DA K9075D050 K9075D100 K9075D150	K9271DA K9271D050 K9271D100 K9271D150	K9269D150 K9269D170 - -
Engine typ	AVC, ANB, AWU, AEB	AVC, ANB, AWU, AEB	AEB, AGN, ALT
Bore size	81.00 81.50 82.00 82.50	81.00 81.50 82.00 82.50	82.50 82.70 - -
Stroke	86.4	86.4	86.4
Displacement	1779ccm	1779ccm	1846ccm
Wössner Comp. ratio	8.5:1	9.5:1	12.3:1
OE Comp. ratio	8.9:1	8.9:1	8.9:1
Comp. height	32.70	32.70	32.70
Rod length	144mm	144mm	144mm
Block height	220mm	220mm	220mm
Dome volume	-13cm ³	-6cm ³	+10.7cm ³
Gasket thickness	1.65	1.65	1.65
Valve per Cylinder	5	5	5
Cylinders	4	4	4
Piston weight in grams	282	280	311
Ring Part No.	810XTY 815XTY 820XTY 825XTY	810XTY 815XTY 820XTY 825XTY	825XSY 827XSY - -
Pin Part No.	WP961	WP961	WP952
Clip Part No.	CW20	CW20	CW20
Kit Price Code	A	A	A




	Corrado, Golf, Sharan, VR6 2.8 Ltr., 2.9 Ltr. 12V	Corrado, Golf, Sharan, VR6 2.8 Ltr., 2.9 Ltr. 12V Turbo
Model	Corrado, Golf, Sharan, VR6 2.8 Ltr., 2.9 Ltr. 12V	Corrado, Golf, Sharan, VR6 2.8 Ltr., 2.9 Ltr. 12V Turbo
Kit Part No.	K9053DA K9053D050 K9053D100 K9053D150 K9053D200 K9053D250	K9093DA K9093D050 K9093D100 K9093D150 K9093D200 K9093D250
Engine typ	AAA, AES, AMY, ABV	AAA, AES, AMY, ABV
Bore size	81.00 81.50 82.00 82.50 83.00 83.50	81.00 81.50 82.00 82.50 83.00 83.50
Stroke	90.22	90.22
Displacement	2788ccm	2788ccm
Wössner Comp. ratio	11.0:1	8.0:1
OE Comp. ratio	10.0:1	10.0:1
Comp. height	30.27	30.30
Rod lenght	164mm	164mm
Block height	-	-
Dome volume	+2cm ³	-17.8cm ³
Gasket thickness	1.65	1.65
Valve per Cylinder	2	2
Cylinders	6	6
Piston weight in grams	286	272
Ring Part No.	810XSY 815XSY 820XSY 825XSY 830XSY 835XSY	810XTY 815XTY 820XTY 825XTY 830XTY 835XTY
Pin Part No.	WP952	WP961
Clip Part No.	CW20	CW20
Kit Price Code	G	G

ROD BOLTS



ARP Rod Bolts

How does L19 compare to ARP 2000?

L19 differs from ARP 2000 in that it is a vacuum melted alloyed steel with sufficient chromium and carbon to achieve high hardness. L19 is air-cooled from the hardening temperature in a way that does not require an oil quench to achieve full hardness and is tempered to assure full conversion to martensite between 1025 F (551,66 C) and 1075 F (579,44 C). L19 is a proprietary material capable of achieving strengths of 220,000 / 230,000 or 260,000 / 270,000 psi as may be required.



Replacement bolts

Material	Head Style	Thread Size	Lenght (inch)	Part #	Price Code
L19	E	3/8	1.750"	4AJ1.750-6SU	J
L19	E	3/8	1.500"	4AJ1.500-6SU	K
ARP2000	E	3/8	1.750"	4AJ1.750-2SU	L
ARP2000	E	3/8	1.500"	4AJ1.500-2SU	L

Rod Bolt Strecht & Torque Specs

Material	Part #	Stretch (inch)	ARP LUBE (ft./lbs.)	Lenght
L19	4AJ1.750-6SU	.0060		1.750"
L19	4AJ1.500-6SU	.0075		1.500"
ARP2000	4AJ1.750-2SU	.0070	45	1.750"
ARP2000	4AJ1.500-2SU	.0060	45	1.500"

CONRODS



Description	Article Number	Big End Diameter		G / Pin Diameter	
		Metric	Inches	Metric	
Audi					
S3 / TT 1.8 Ltr. 20V Turbo	PL018	50.60	1.992	20mm	
S2 (3B)	PL018	50.60	1.992	20mm	
A3 / S3 2.0 Ltr. T FSI*	PL018	50.60	1.992	20mm	
BMW					
M3 2.3 Ltr. 16V Gr. A (S14)	PL002	52.00	2.047	22mm	
M3 2.5 Ltr. 16V EVO Sport (S14)	PL002	52.00	2.047	22mm	
M3 3.0 Ltr. 24V E36, 1992-95	PL041	53.00	2.086	21mm	
M3 3.2 Ltr. 24V E36, 1995 up	PL042	53.00	2.086	21mm	
Citroën					
Saxo 106 Gr. A TU5JP4	PL020	48.66	1.915	19.46mm	
Saxo 106 Kit Car TU5JP4	PL030	48.70	1.917	18mm	
ZX 2.0 Ltr. 16V XU10J4	PL028	53.70	2.114	22mm	
ZX, Xsara 2.0 Ltr. 16V XU10J4RS	PL029	53.70	2.114	20mm	
C4 2.0 Ltr. 16V VTR EW10J4RS	PL033	48.70	1.917	21mm	
Ferrari					
220, 250 GT, 275 GTB	PL039	44.96	1.770	17mm	
Fiat					
Punto, Uno 1.4 Ltr. 16V Turbo 1990-97	PL023	48.63	1.914	22mm	
Ritmo, Punto, Tipo 1.6 Ltr. 16V Turbo	PL023	48.63	1.914	22mm	
Ford					
Cosworth Escort, Sierra Turbo / Pinto OHC	PL027	55.00	2.165	24mm	
Duratec HE 2.0 Ltr. 16V CJBA	PL040	50.00	1.968	21mm	
Honda					
RSX Type S, Civic Type R, 2001-05 (K20A)	PL003	51.00	2.007	22mm	
S2000 (F20C)	PL043	49.00	1.929	23mm	
Lancia					
Integrale 2.0 Ltr. 16V / 8V Turbo	PL001	53.92	2.122	22mm	
Mazda					
Miata, MX5 1.6 Ltr. 16V Turbo	PL007	48.00	1.890	20mm	
Miata, MX5 1.8 Ltr. 16V Turbo	PL007	48.00	1.890	20mm	
Mitsubishi					
4G63 Lancer EVO 4-9	PL008	48.00	1.889	22mm	
4B11 Lancer EVO 10	PL045	55.00	2.165	23mm	
Nissan					
Skyline RB25DET / RB26DETT	PL004	51.00	2.007	21mm	
Primera, Sentra SX200 (S14) SR20DET	PL005	51.00	2.007	22mm	
Primera, Sentra SX200 (S13) CA18DET	PL026	48.00	1.889	20mm	
350Z VQ35-V4Y	PL006	55.00	2.165	22mm	
Opel					
2.0 Ltr. 16V C2.0 XE	PL009	52.00	2.047	21mm	
2.0 Ltr. 16V Turbo C2.0 LET, Z2.0 LET	PL010	coming soon			
2.4 Ltr. CIH	PL011	55.00	2.165	22mm	

* The rods are just useable with Wössner pistons

CONRODS



	Between Centres		Big End Width		Small End Width		Weight in Grams w/o bolts	Quantity in Kit	Price Code
	Metric	Inches	Metric	Inches	Metric	Inches			
	144.00	5.669	25.00	0.984	25.00	0.984	538	4	D
	144.00	5.669	25.00	0.984	25.00	0.984	538	5	G
	144.00	5.669	25.00	0.984	25.00	0.984	538	4	D
	144.00	5.669	23.90	0.944	23.90	0.944	564	4	D
	144.00	5.669	23.90	0.944	23.90	0.944	564	4	D
	139.00	3.530	21.84	0.859	21.84	0.859	530	6	E
	142.00	5.591	21.85	0.860	21.85	0.860	500	6	E
	133.60	5.259	24.00	0.944	20.00	0.787	441	4	D
	137.75	5.423	23.90	0.940	20.00	0.787	456	4	D
	152.00	5.984	24.20	0.952	19.10	0.751	540	4	D
	158.00	6.220	24.20	0.952	22.00	0.866	558	4	D
	139.00	5.472	24.10	0.948	19.10	0.751	480	4	D
	112.00	4.409	20.80	0.818	19.00	0.748	426	12	F
	128.52	5.059	25.40	1.000	25.40	1.000	505	4	D
	128.52	5.059	25.40	1.000	25.40	1.000	505	4	D
	128.50	5.059	25.80	1.015	25.80	1.015	533	4	D
	147.30	5.799	21.80	0.858	18.00	0.708	480	4	D
	138.80	5.464	19.86	0.781	19.86	0.781	502	4	D
	152.00	5.984	23.80	0.937	22.23	0.875	525	4	D
	145.00	5.708	25.70	1.011	25.70	1.011	569	4	D
	133.00	5.236	21.80	0.858	21.80	0.858	393	4	D
	133.00	5.236	21.80	0.858	21.80	0.858	393	4	D
	150.00	5.905	26.40	1.039	26.40	1.039	541	4	D
	144.00	5.669	21.85	0.860	19.90	0.783	498	4	D
	121.50	4.783	21.80	0.858	21.80	0.858	454	6	E
	136.25	5.364	22.80	0.897	23.50	0.925	514	4	D
	133.00	5.236	24.00	0.944	20.60	0.811	475	4	D
	144.20	5.677	20.80	0.818	20.80	0.818	523	6	E
	143.00	5.629	26.30	1.035	21.90	0.862	513	4	D
								4	D
	134.00	5.275	24.80	0.976	24.80	0.976	492	4	D

CONRODS



Description	Article Number	Big End Diameter		G / Pin Diameter
		Metric	Inches	Metric
Peugeot				
106 XSI 8V TU5J2	PL019	48.66	1.915	18mm
206 XS 1.6 Ltr. 16V TU5J4	PL019	48.66	1.915	18mm
106 Kit Car TU5J4	PL030	48.70	1.917	18mm
106 GTI S16 Gr. A TU5JP4	PL020	48.66	1.915	19.46mm
206 S16 Super 1600 TU5JP4	PL046	48.66	1.916	18mm
309 GTI & 405 M16 1.9 Ltr. S16 XU9J4	PL044	53.69	2.114	22mm
306 2.0 Ltr. S16 XU10J4	PL028	53.70	2.114	22mm
306-RS 2.0 Ltr. S16 XU10J4RS	PL029	53.70	2.114	20mm
405 T16 XU10J4TEX	PL051			23mm
206 RC 2.0 Ltr. S16 EW10J4RS	PL033	48.70	1.917	21mm
Porsche				
911 2.0 / 2.2 S, E, L, T	PL037	61.00	2.402	22mm
911 2.4 / 2.7 / 3.0 Carrera / 3.0 Turbo	PL035	56.00	2.205	22mm
911 2.4 / 2.7 / 3.0 SC	PL047	56.00	2.205	22mm
3.2 / 3.3 Turbo w / 23mm pin	PL049	58.01	2.284	23mm
3.2 / 3.3 Turbo w / 22mm pin	PL050	58.01	2.284	22mm
944 / 944 Turbo / 968, Cup, S2, S	PL036	55.00	2.165	24mm
RSR & 964	PL048	58.01	2.284	23mm
993 / 996 TT, GT2	PL031	58.00	2.283	23mm
Renault				
Clio Williams 2.0 Ltr. 16V F7R	PL021	51.59	2.031	21mm
Clio RS 2.0 Ltr. 16V F4R	PL021	51.59	2.031	21mm
R5 Turbo 840-30	PL022	47.614	1.875	20mm
R5 Alpine Turbo C6J726	PL022	47.614	1.875	20mm
R5 GT Turbo C1J760/C1J782	PL022	47.614	1.875	20mm
Subaru				
Impreza (22B) EJ22	PL024	55.00	2.165	23mm
Impreza Version 1, 2, 3, 4 1992-98 EJ20	PL024	55.00	2.165	23mm
Impreza Version 5, 6 1998-2000 EJ20	PL024	55.00	2.165	23mm
Impreza WRX STI Version 7, 8 2000-03 EJ205	PL024	55.00	2.165	23mm
Impreza WRX STI Version 9 2003 up EJ205	PL024	55.00	2.165	23mm
Toyota				
Celica, MR2 2.0 Ltr. 16V 3SGE	PL013	51.00	2.007	22mm
Celica, MR2 2.0 Ltr. 16V Turbo 3SGTE / 3SG	PL013	51.00	2.007	22mm
Supra Turbo 3.0 Ltr. Turbo 2JZGTE	PL025	55.00	2.165	22mm
Volkswagen				
1.8 Ltr. 16V Turbo KR, PL	PL018	50.60	1.992	20mm
1.8 Ltr. 20V Turbo	PL018	50.60	1.992	20mm
2.0 Ltr. 16V Turbo 9A	PL018	50.60	1.992	20mm
1.8 Ltr. 8V G60 PG	PL038	50.60	1.992	22mm
2.0 Ltr. 16V Turbo ABF	PL016	50.60	1.992	21mm
2.0 Ltr. 8V 2E	PL016	50.60	1.992	21mm
VR6 2.8 Ltr. / 2.9 Ltr. 12V Turbo	PL017	56.80	2.236	20mm
3.2 Ltr. 24V R32 Turbo	PL017	56.80	2.236	20mm
2.8 Ltr. 24V V6 4-Motion Turbo	PL017	56.80	2.236	20mm

CONRODS



	Between Centres		Big End Width		Small End Width		Weight in Grams w/o bolts	Quantity in Kit	Price Code
	Metric	Inches	Metric	Inches	Metric	Inches			
	133.60	5.259	24.00	0.944	20.00	0.787	445	4	D
	133.60	5.259	24.00	0.944	20.00	0.787	445	4	D
	137.75	5.423	23.90	0.940	20.00	0.787	456	4	D
	133.60	5.259	24.00	0.944	20.00	0.787	441	4	D
	139.00	5.472	23.95	0.943	20.00	0.787	433	4	D
	143.00	5.630	22.45	0.884	22.45	0.884	484	4	D
	152.00	5.984	24.20	0.952	19.10	0.751	540	4	D
	158.00	6.220	24.20	0.952	22.00	0.866	558	4	D
	152.00	5.984							
	139.00	5.472	24.10	0.948	19.10	0.751	470	4	D
	130.00	5.118	21.69	0.854	25.40	1.000		6	E
	127.75	5.030	25.90	1.020	23.77	0.936	499	6	E
	127.75	5.030	23.90	1.020	23.77	0.936		6	E
	127.00	5.000	21.74	0.856	25.40	1.000		6	E
	127.00	5.000	21.74	0.856	25.40	1.000		6	E
	150.00	5.905	28.80	1.133	26.30	1.035	662	4	D
	127.00	5.000	21.74	0.856	19.51	0.059		6	E
	127.00	5.000	18.90	0.744	19.51	0.059	462	6	E
	144.00	5.669	25.00	0.984	22.00	0.866	499	4	D
	144.00	5.669	25.00	0.984	22.00	0.866	499	4	D
	128.00	5.039	21.80	0.858	21.80	0.858	451	4	D
	128.00	5.039	21.80	0.858	21.80	0.858	451	4	D
	128.00	5.039	21.80	0.858	21.80	0.858	451	4	D
	130.45	5.135	21.425	0.844	21.425	0.844	454	4	D
	130.45	5.135	21.425	0.844	21.425	0.844	454	4	D
	130.45	5.135	21.425	0.844	21.425	0.844	454	4	D
	130.45	5.135	21.425	0.844	21.425	0.844	454	4	D
	130.45	5.135	21.425	0.844	21.425	0.844	454	4	D
	138	5.433	26.75	1.053	23.50	0.925	495	4	D
	138	5.433	26.75	1.053	23.50	0.925	495	4	D
	142	5.590	26.00	1.023	26.00	1.023		6	E
	144.00	5.669	25.00	0.984	25.00	0.984	538	4	D
	144.00	5.669	25.00	0.984	25.00	0.984	538	4	D
	144.00	5.669	25.00	0.984	25.00	0.984	538	4	D
	136.00	5.354	24.96	0.982	24.96	0.982	520	4	D
	159.00	6.259	24.90	0.980	20.00	0.787	564	4	D
	159.00	6.259	24.90	0.980	20.00	0.787	564	4	D
	164.00	6.456	19.90	0.783	19.90	0.783	543	6	E
	164.00	6.456	19.90	0.783	19.90	0.783	543	6	E
	164.00	6.456	19.90	0.783	19.90	0.783	543	6	E

QUALITY ASSURANCE

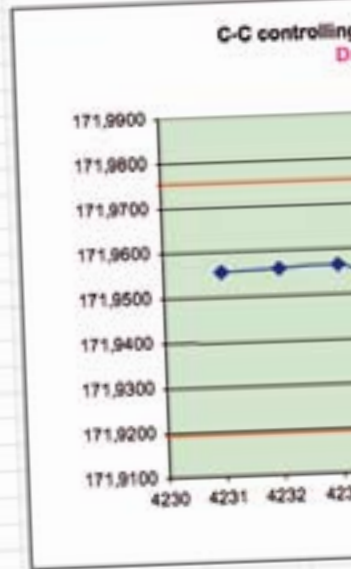


Control V1	Reference	171,9500
	Min	171,9200
	Max	171,9800
	Tolerance zone	0,0600

Measurement setup

Ø B/E	Reference	47,7900	
	Min	47,7900	23,895
	Max	47,8080	23,904
Ø G/PIN	Reference	20,0000	0,0200
	Min	20,0100	10,005
	Max	20,0300	10,015

Calculation of tolerance zone				CB-CS
Smallest deflection and biggest bore				
171,92	23,90	10,02	=	138,001
Biggest deflection and smallest bore				
171,98	23,90	10,01	=	138,080
Final tolerance zone		0,079		

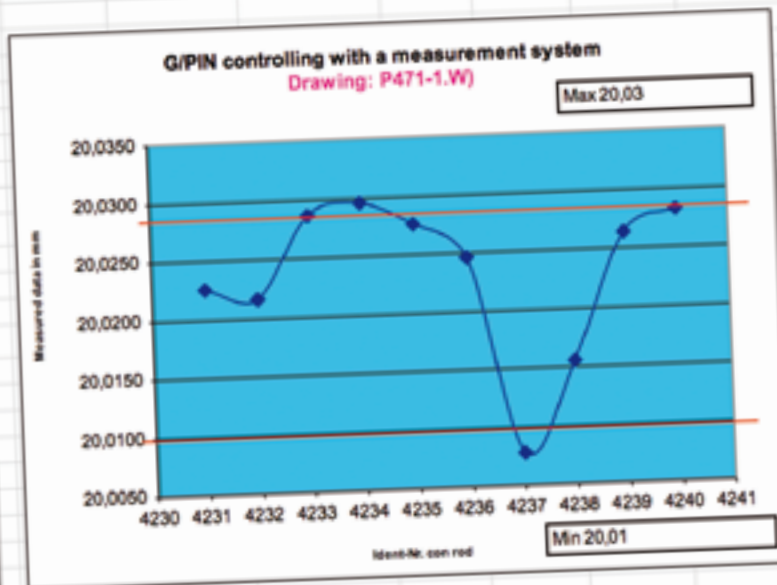
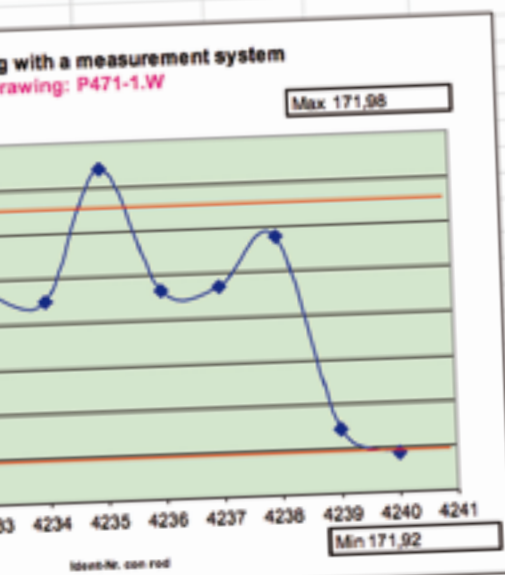


BASIS: ZG P471-1.W

Centralization	Control	0,060
1	8 Con rod	Are in the allowed tolerance field from
2	2 Con rod	Are beyond the allowed tolerance field
3		The tolerance field about all con rods is
4		Average of the actual-deflection
		171,9516

WÖ-P	Ident-Nr.	Typ	ZE-P	Serial No.	gram	Weight group	C-C Actual value	Irr
			P471-1	1	486,5	1	171,9557	
40	P471-1	4231	Con rod Lancia	P471-1	2	486,2	1	171,9562
41	P471-1	4232	Con rod Lancia	P471-1	3	485,8	1	171,9567
42	P471-1	4233	Con rod Lancia	P471-1	4	486,3	1	171,9549
43	P471-1	4234	Con rod Lancia	P471-1	1	487,3	1	171,9842
44	P471-1	4235	Con rod Lancia	P471-1	2	485,4	1	171,9568
45	P471-1	4236	Con rod Lancia	P471-1	3	487,1	1	171,9572
46	P471-1	4237	Con rod Lancia	P471-1	4	484,8	1	171,9678
47	P471-1	4238	Con rod Lancia	P471-1	3	485,9	1	171,9245
48	P471-1	4239	Con rod Lancia	P471-1	4	486,4	1	171,9189
49	P471-1	4240	Con rod Lancia	P471-1				

Quality assurance



Actual deflection	171,9516		
Control V1	+	-	
Zone	0,065	0,033	0,033
Regularity at min.	8	2	
Irregularity at max.			1
Decision	F	F	F
Actual value G/PIN	20,0226	20,0216	20,0286
Irregularity at min.	0,0126	0,0116	0,0186
Irregularity at max.	-0,0074	-0,0084	-0,0014
Decision	1	1	1
Actual value G/PIN	20,0276	20,0246	20,0078
Irregularity at min.	0,0176	0,0146	-0,0022
Irregularity at max.	-0,0024	-0,0054	-0,0222
Decision	1	1	1
Actual value G/PIN	20,0156	20,0264	20,0283
Irregularity at min.	0,0056	0,0164	0,0183
Irregularity at max.	-0,0144	-0,0036	-0,0017
Decision	1	1	1

Centralization	G/PIN		0,0200
9	Are in the allowed tolerance field from		
1	Are beyond the allowed tolerance field		
Actual value G/PIN	Irregularity at min.	Irregularity at max.	Decision
20,0226	0,0126	-0,0074	F
20,0216	0,0116	-0,0084	F
20,0286	0,0186	-0,0014	F
20,0296	0,0196	-0,0004	F
20,0276	0,0176	-0,0024	F
20,0246	0,0146	-0,0054	F
20,0078	-0,0022	-0,0222	no F
20,0156	0,0056	-0,0144	F
20,0264	0,0164	-0,0036	F
20,0283	0,0183	-0,0017	F

GASKETS

COMETIC GASKET

The Cometic MLS gasket is comprised of three layers of Stainless Steel. Cometic uses Stainless steel for increased strength and its ability to rebound and corrosion resistance. The outer layers of the gasket are embossed and coated on both sides with a flouroelastomer rubber based material (Viton) designed to meet the demands of a variety of harsh sealing environments, load conditions and surface finishes. The Viton coating is heat resistant to 250 degree or 482 F.

The center or shim layer of the gasket is comprised of an uncoated Stainless Steel layer, which can be varied to accommodate multiple thickness requirements. The MLS gasket is ideal for both aluminium heads to cast iron blocks and aluminium heads to aluminium blocks. No re-torque is necessary. By design the MLS gasket promotes an even torque load across the sealing surface allowing for measurable reduced bore distortion.

GASKETS



	Engine Type	Fits Bore Size (mm)	Material (mm)	Stock Code	Price Code
BMW					
M3 E30	2.0 Ltr. S14B20, 2.3 Ltr. S14B23	93.4	MLS 1.3	C4294-051	23
		93.4	MLS 1.5	C4294-059	23
		94.5	MLS 1.3	C4295-051	23
M3 E36	3.0 Ltr. S50B30	87	MLS 1.77	C4508-070	28
M3 E46	3.25 Ltr. S54B32	87.5	MLS 1.77	C4505-070	28
Fiat / Lancia					
1.4 Ltr. Turbo Punto & Uno	146A / 176A			coming soon	
Delta Integrale Turbo	2.0 Ltr. 8V / 16V	85	MLS 1.01	C4124-040	20
		85	MLS 1.15	C4124-045	20
		85	MLS 1.3	C4124-051	20
Ford					
Cosworth Turbo / None Turbo / Pinto SOHC	YB / N5B	92.5	MLS 0.75	C4350-030	20
		92.5	MLS 0.90	C4350-036	20
		92.5	MLS 1.01	C4350-040	20
		92.5	MLS 1.1	C4350-045	20
		92.5	MLS 1.3	C4350-051	20
Honda					
Civic, Integra V-Tec	B16A, B17, B18C	81	MLS 0.75	C4231-030	20
		81.5	MLS 0.75	C4232-030	20
		82	MLS 0.68	C4168-027	20
		82	MLS 0.75	C4168-030	20
		82	MLS 0.91	C4168-036	20
		82	MLS 1.01	C4168-040	20
		82	MLS 1.15	C4168-045	20
		82	MLS 1.3	C4168-051	20
Civic Type R / RSX Type S	2.0 Ltr. V-Tec DOHC K20A, A2, A3, K24	86	MLS 0.75	C4300-030	20
		87	MLS 0.70		20
		87	MLS 0.75	C4311-030	20
S2000, 1999-2003	F20C	87	MLS 0.75	H2089SP2030S	20
		87.5	MLS 0.75	H2089SP3030S	20
		88	MLS 0.75	H2089SP8030S	20
		89	MLS 0.91	C4335-036	20
		89	MLS 1.01	C4335-040	20
Mazda					
MX-5 Miata	1.6 Ltr. DOHC 16V B6D	78.5	MLS 1.0	H1218SP2040S	24
		79	MLS 1.0	H1218SP1040S	24
		80	MLS 1.01	C4122-040	24
Mitsubishi					
Galant, Eclipse, Lancer EVO 1-3	2.0 Ltr. 16V 4G63	85.50	MLS 1.3	C4233-051	20
		85.50	MLS 1.9	C4233-075	20
		86	MLS 1.3	C4234-051	20
		86	MLS 1.9	C4234-075	20
		87	MLS 1.3	C4235-051	20
		87	MLS 0.91	C4235-036	20
		87	MLS 1.15	C4235-045	20
		87	MLS 1.3	C4235-051	20
		87	MLS 1.9	C4235-075	20
		87	MLS 1.9	C4235-075	20

GASKETS



	Engine Type	Fits Bore Size (mm)	Material (mm)	Stock Code	Price Code
Mitsubishi					
Lancer EVO 4-9	2.0 Ltr. 16V 4G63	85	MLS 1.3	C4157-051	20
		86	MLS 0.75	C4156-030	20
		86	MLS 0.91	C4156-036	20
		86	MLS 1.01	C4156-040	20
		86	MLS 1.15	C4156-045	20
		86	MLS 1.3	C4156-051	20
		86	MLS 1.52	C4156-060	20
Nissan					
Silvia, Bluebird SX200 Turbo	CA18DET (S13) SR20DET (S14) FWD SR20DET (S14) RWD SR20DET (S14) W/VL	85	MLS 1.3	C4480-051	25
		88.50	MLS 0.30	C4130-030	20
		88.50	MLS 0.40	C4283-040	20
		87.5	MLS 0.40	C4324-040	20
240SX	2.4 Ltr. 16V KA24DE / DET 1991-1998	90	MLS 1.01	C4285-040	20
		90	MLS 1.3	C4285-051	20
Skyline	RB25DET	86	MLS 1.3	C4317-051	22
		87	MLS 1.3	C4318-051	22
Skyline GTR	RB26DETT	86	MLS 1.3	C4319-051	22
		87	MLS 1.3	C4320-051	22
350Z, Pathfinder	3.5 Ltr. V6 VQ35DE	96	MLS 0.75	C4345-030 Left	26
		96	MLS 0.75	C4345-030 Right	26
		96	MLS 1.01	C4345-040 Left	26
		96	MLS 1.01	C4361-040 Right	26
Opel / Vauxhall					
Astra, Calibra	2.0 Ltr. 16V C20XE, C20LET, Z20LET, Y20LET	88	MLS 1.01	C4216-040	20
		88	MLS 1.15	C4216-045	20
		88	MLS 1.3	C4216-051	20
		88	MLS 1.52	C4216-060	20
Peugeot					
106 S16	TU5J4	80	MLS 1.3	C4493-051	20
309 GTI S16, 405 MI16	XU9J4	84	MLS 1.3	C4225-051	20
306 S16, 405MI16	XU10J4	84	MLS 1.3	C4225-051	20
		86	MLS 1.3	C4226-051	20
		88	MLS 1.3	C4228-051	20
Porsche					
944 2.5 Ltr.		100.50	MLS 1.01	C4272-040	20
		103	MLS 1.01	C2473-040	20
Renault					
Clio RS, 172, 182	2.0 16S F4R	83	MLS 0.75	C4518-030	20
		83	MLS 1.01	C4518-040	20
		84.50	MLS 0.75	C4519-030	20
		84.50	MLS 1.01	C4519-030	20

GASKETS



	Engine Type	Fits Bore Size (mm)	Material (mm)	Stock Code	Price Code
Subaru					
Impreza (22B)	EJ22	98	MLS 1.3	C4263-051	27
		98	MLS 1.52	C4263-060	27
Impreza 2.5 Ltr. Impreza WRX STI 2004-06	EJ25, EJ257	100	MLS 0.75	C4264-030	27
		100	MLS 0.91	C4264-036	27
		100	MLS 1.01	C4264-040	27
		100	MLS 1.15	C4264-045	27
		100	MLS 1.3	C4264-051	27
		100	MLS 1.52	C4264-060	27
Impreza Version 1, 2, 3, 4 1992-98	EJ20	93	MLS 0.75	C4261-030	27
		93	MLS 0.91	C4261-036	27
		93	MLS 1.01	C4261-040	27
		93	MLS 1.15	C4261-045	27
		93	MLS 1.3	C4261-051	27
		93	MLS 1.52	C4261-060	27
		93	MLS 1.65	C4261-065	27
Toyota					
Starlet 1.3 Ltr. Turbo				coming soon	
Celica, MR2 Turbo	2.0 Ltr. 16V 3SGTE	87	MLS 1.01	C4314-040	20
		87	MLS 1.15	C4314-045	20
		87	MLS 1.3	C4314-051	20
		87	MLS 1.52	C4314-060	20
Celica, MR2	1.6 Ltr. 16V 4AG	81	MLS 0.68	C4170-027	20
		81	MLS 0.91	C4170-036	20
		81	MLS 1.01	C4170-040	20
		81	MLS 1.15	C4170-045	20
		81	MLS 1.3	C4170-051	20
Volkswagen / Audi					
Golf, Passat, Vento	1.8 Ltr. AAM, ABS, ADZ, PG, PL, AGB	81.50	MLS 1.3	coming soon	20
		82	MLS 1.3	coming soon	20
		82.50	MLS 1.3	coming soon	20
		83	MLS 1.3	C4247-051	20
		85	MLS 1.01	C4246-040	20
		85	MLS 1.15	C4246-045	20
		85	MLS 1.3	C4246-051	20
Golf, Corrado, Passat	2.0 Ltr. 2E, 9A, ABF	83	MLS 1.3	C4247-051	20
		85	MLS 1.3	C4246-051	20
Golf, Corrado	2.8 Ltr. / 2.9 Ltr. VR6 AAA, AMY, AES	82	OEM	C00001	21
		83	MLS 1.01	C00001-040	21
		84	MLS 1.3	C00001-051	21
Golf, Corrado Turbo	2.8 Ltr. / 2.9 Ltr. VR6 AAA, AMY, AES	82	coming soon		21
		83			21
		84			21

PINLIST



DLC (Diamond-Like Carbon) is an extremely hard, wear resistant coating with a very low friction coefficient of 0.1 – 0.15.

Our DLC coated pins offer a micro hardness between 2800 and 3000 HV.

	Part No.	Dimension	Type	Weight in grams	Clip	Price Code
Ø12	WP091	12x8x37.5	S	18	CW12	13
Ø13	WP988	13x8x40	CS/DLC	24	CW13	13
Ø14	WP058	14x10x38.5	T	21	CW14	13
	WP025	14x9.0x45	S	31		13
Ø15	WP032	15x10x45L	T	32	CW15	13
	WP011	15x9x45H	S	38		13
Ø16	WP036	16x10x45	T	41	CW16	13
	WP041	16x10.5x51	T	42		13
	WP959	16x10x45	CT/DLC	44		13
	WP987	16x10x36	CT/DLC	33		13
	WP027	16x11x56	T	44		13
Ø17	WP983	17x10x46	CT/DLC	49	CW17	13
	WP989	17x10x58	CT/DLC	63		13
	WP990	17x10x51	CT/DLC	55		13
	WP945	17x11x61	CS/DLC	63		13
Ø18	WP953	18x10x51H	CT/DLC	68	CW18	13
	WP954	18x11x45	CT/DLC	54		13
	WP949	18x12x45	CT/DLC	45		13
	WP999	18x10x51H	CT/DLC	68		13
	WP931	18x11x51	CT/DLC	60		13
	WP039	18x12x56H	T	57		13
	WP042	18x12x62.8	T	71		13
	WP040	18x13x53	T	47		13
	WP033	18x13x56L	T	49		13
Ø18.5	WP984	18.5x11x55.5	CT/DLC	71	CW19	13
Ø19	WP937	19x10x51H	CT/DLC	75	CW19	13
	WP928	19x12x46	CT/DLC	56		13
	WP918	19x12x48	CT/DLC	58		13
	WP950	19x12x51	CT/DLC	60		13
	WP926	19x12x55.5	CT/DLC	66		13
	WP044	19x13x56.4	T	61		13
	WP019	19x13x61	S	73		13
Ø19.46	WP996	19,46x12x51	CT/DLC	66	CW20	13
	WP935	19.46x12x61	CT/DLC	80		13
Ø20	WP952	20x12x55	CT/DLC	79	CW20	14
	WP929	20x13x46	CT/DLC	59		14
	WP938	20x13x51	CT/DLC	66		14
	WP086	20x13x61	T	79		14
	WP961	20x11x61	CT/DLC	105		14

PINLIST



DLC (Diamond-Like Carbon) is an extremely hard, wear resistant coating with a very low friction coefficient of 0.1 – 0.15.
Our DLC coated pins offer a micro hardness between 2800 and 3000 HV.

	Part No.	Dimension	Type	Weight in grams	Clip	Price Code
Ø20.12	WP920	20,12x12x51	CT/DLC	73	CW20	14
	WP993	0.792x13x72	CS/DLC	104		14
	WP921	20,12x12x56	CT/DLC	82		14
Ø20.63	WP995	20,63x13x55	CT/DLC	79	CW21	14
Ø21	WP913	21x13.5x46	CT/DLC	73	CW21	14
	WP951	21x13.5x51	CT/DLC	74		14
	WP992	21x12x61	CS/DLC	111		14
	WP934	21x13x55.5	CT/DLC	85		14
Ø22	WP955	22x14x46	CT/DLC	69	CW22	14
	WP909	22x14x51	CT/DLC	79		14
	WP997	22x12x46	CS/DLC	96		14
	WP998	22x13x51	CT/DLC	99		14
	WP962	22x12x61	CT/DLC	-		14
	WP917	22x14x56	CT/DLC	87	C22x1.6	14
	WP946	22x14x63	CT/DLC	100		14
Ø22.22	WP985	22.225x14x63	CT/DLC	105	CW23	14
Ø23	WP908	23x13x50.5	CT/DLC	96	CW23	14
	WP994	23x13x61	CT/DLC	126		14
	WP947	23x13x50.5	CS/DLC	112	C23x1.6	14
	WP924	23x15x55.5	CT/DLC	95		14
Ø23,5	WP960	23,5x15,9x51	CT/DLC	86	CW24	14
Ø23,55	WP956	23,546x15,9x56	CT/DLC	95	CW24	14
Ø24	WP923	24x16x51	CT/DLC	92	CW24	14
	WP957	24x17x56	CT/DLC	91		14
	WP922	24x16x63.5	CT/DLC	120		14

S= cylindrical shape

T= conical shape

C= chromium plated for plain bearing only

RINGLIST



All Woessner rings can be used in cast iron, Nikasil®, boron composite® and Electrofusion bores.

Caution: Wössner 4-stroke rings can not be used in chrome plated bores.

Ring Part No.	Fits Bore dia.	Top Ring (mm)	Second Ring (mm)	Oil-Ring (mm)	Price Code
530XKS	53	1x2.4	0.8x2.5	2x2.4	18
535XKS	53,5	1x2.4	0.8x2.5	2x2.4	18
540XKS	54	1x2.4	0.8x2.5	2x2.4	18
545XKS	54,5	1x2.4	0.8x2.5	2x2.4	18
550XKS	55	1x2.4	0.8x2.5	2x2.4	18
560XKS	56	1x2.4	0.8x2.5	2x2.4	18
570XKS	57	1x2.4	0.8x2.5	2x2.4	18
580XKS	58	1x2.4	0.8x2.5	2x2.4	18
590XKS	59	1x2.4	0.8x2.5	2x2.4	18
595XKS	59,5	1x2.4	0.8x2.5	2x2.4	18
600XGS	60	1x2.65	1x2.7	2x2.7	18
605XGS	60,5	1x2.65	1x2.7	2x2.7	18
610XKS	61	1x2.4	0.8x2.5	2x2.4	18
615XKS	61,5	1x2.4	0.8x2.5	2x2.4	18
620XKS	62	1x2.4	0.8x2.5	2x2.4	18
625XKS	62,5	1x2.4	0.8x2.5	2x2.4	18
630XKS	63	1x2.4	0.8x2.5	2x2.4	18
635XKS	63,5	1x2.4	0.8x2.5	2x2.4	18
640XKS	64	1x2.4	0.8x2.5	2x2.4	18
645XKS	64,5	1x2.4	0.8x2.5	2x2.4	18
650XGS	65	1x2.65	1x2.7	2x2.7	18
655XGS	65,5	1x2.65	1x2.7	2x2.7	18
660XKS	66	1x2.4	0.8x2.5	2x2.4	18
665XKS	66,5	1x2.4	0.8x2.5	2x2.4	18
670XKS	67	1x2.4	0.8x2.5	2x2.4	18
675XKS	67,5	1x2.4	0.8x2.5	2x2.4	18
680XKS	68	1x2.4	0.8x2.5	2x2.4	18
685XKS	68,5	1x2.4	0.8x2.5	2x2.4	18
690XKS	69	1x2.4	0.8x2.5	2x2.4	18
695XKS	69,5	1x2.4	0.8x2.5	2x2.4	18
700XDS	70	1x3.1	1.2x3.5	2x2.7	18
705XDS	70,5	1x3.1	1.2x3.5	2x2.7	18
710XDS	71	1x3.1	1.2x3.5	2x2.7	18
715XDS	71,5	1x3.1	1.2x3.5	2x2.7	18
720XDS	72	1x3.1	1.2x3.5	2x2.7	18
725XDS	72,5	1x3.1	1.2x3.5	2x2.7	18
730XDS	73	1x3.1	1.2x3.5	2x2.7	18
735XDS	73,5	1x3.1	1.2x3.5	2x2.7	18
740XDS	74	1x3.1	1.2x3.5	2x2.7	18
745XDS	74,5	1x3.1	1.2x3.5	2x2.7	18
750XDS	75	1x3.1	1.2x3.5	2x2.7	18
755XDS	75,5	1x3.1	1.2x3.5	2x2.7	18
755XTZ	75,5	1.5x3.1	1.2x3.5	2x2.7	18
760XDS	76	1x3.1	1.2x3.5	2x2.7	18
760XTZ	76	1.5x3.1	1.2x3.5	2x2.7	18
760XMS	76	0.8x2.65	0.8x3.1	2x2.7	18
765XDS	76,5	1x3.1	1.2x3.5	2x2.7	18
770XKS	77	1x3.1	0.8x3.1	2x2.7	18
770XDS	77	1x3.1	1.2x3.5	2x2.7	18
770XTZ	77	1.5x3.1	1.2x3.5	2x2.7	18
775XDS	77,5	1x3.1	1.2x3.5	2x2.7	18
775XTZ	77,5	1.5x3.1	1.2x3.5	2x2.7	18

RINGLIST



All Woessner rings can be used in cast iron, Nikasil®, boron composite® and Electrofusion bores.

Caution: Wössner 4-stroke rings can not be used in chrome plated bores.

Ring Part No.	Fits Bore dia.	Top Ring (mm)	Second Ring (mm)	Oil-Ring (mm)	Price Code
780XMS	78	0.8x2.65	0.8x3.1	2x2.7	18
780XDS	78	1x3.1	1.2x3.5	2x2.7	18
780XTZ	78	1.5x3.1	1.2x3.5	2x2.7	18
785XDS	78,5	1x3.1	1.2x3.5	2x2.7	18
785XTZ	78,5	1.5x3.1	1.2x3.5	2x2.7	18
787XDS	78,75	1x3.1	1.2x3.5	2x2.7	18
790XMS	79	0.8x2.65	0.8x3.1	2x2.7	18
790XDS	79	1x3.1	1.2x3.5	2x2.7	18
790XTZ	79	1.5x3.1	1.2x3.5	2x2.7	18
795XDS	79,5	1x3.1	1.2x3.5	2x2.7	18
795XTZ	79,5	1.5x3.1	1.2x3.5	2x2.7	18
800XDS	80	1x3.1	1.2x3.5	2x2.7	19
802XDS	80,25	1x3.1	1.2x3.5	2x2.7	19
805XDS	80,5	1x3.1	1.2x3.5	2x2.7	19
805XTZ	80,5	1.5x3.1	1.2x3.5	2x2.7	19
810XSY	81	1x3.1	1.2x3.5	2.5x2.9	19
810XTY	81	1.5x3.1	1.2x3.5	2.5x2.9	19
815XSY	81,5	1x3.1	1.2x3.5	2.5x2.9	19
815XTY	81,5	1.5x3.1	1.2x3.5	2.5x2.9	19
820XSY	82	1x3.1	1.2x3.5	2.5x2.9	19
820XTY	82	1.5x3.1	1.2x3.5	2.5x2.9	19
825XSY	82,5	1x3.1	1.2x3.5	2.5x2.9	19
825XTY	82,5	1.5x3.1	1.2x3.5	2.5x2.9	19
827XSY	82,75	1x3.1	1.2x3.5	2.5x2.9	19
827XTY	82,75	1.5x3.1	1.2x3.5	2.5x2.9	19
830XSY	83	1x3.1	1.2x3.5	2.5x2.9	19
830XTY	83	1.5x3.1	1.2x3.5	2.5x2.9	19
835XSY	83,5	1x3.1	1.2x3.5	2.5x2.9	19
835XTY	83,5	1.5x3.1	1.2x3.5	2.5x2.9	19
840XSY	84	1x3.1	1.2x3.5	2.5x2.9	19
840XTY	84	1.5x3.1	1.2x3.5	2.5x2.9	19
845XSY	84,5	1x3.1	1.2x3.5	2.5x2.9	19
845XTY	84,5	1.5x3.1	1.2x3.5	2.5x2.9	19
850XSY	85	1x3.1	1.2x3.5	2.5x2.9	19
850XTY	85	1.5x3.1	1.2x3.5	2.5x2.9	19
855XSY	85,5	1x3.1	1.2x3.5	2.5x2.9	19
855XTY	85,5	1.5x3.1	1.2x3.5	2.5x2.9	19
860XSY	86	1x3.1	1.2x3.5	2.5x2.9	19
860XTY	86	1.5x3.1	1.2x3.5	2.5x2.9	19
865XSY	86,5	1x3.1	1.2x3.5	2.5x2.9	19
865XTY	86,5	1.5x3.1	1.2x3.5	2.5x2.9	19
870XSY	87	1x3.1	1.2x3.5	2.5x2.9	19
870XTY	87	1.5x3.1	1.2x3.5	2.5x2.9	19
875XSY	87,5	1x3.1	1.2x3.5	2.5x2.9	19
875XTY	87,5	1.5x3.1	1.2x3.5	2.5x2.9	19
880XSY	88	1x3.1	1.2x3.5	2.5x2.9	19
880XTY	88	1.5x3.1	1.2x3.5	2.5x2.9	19
885XSY	88,5	1x3.1	1.2x3.5	2.5x2.9	19
885XTY	88,5	1.5x3.1	1.2x3.5	2.5x2.9	19
890XSY	89	1x3.1	1.2x3.5	2.5x2.9	19
890XTY	89	1.5x3.1	1.2x3.5	2.5x2.9	19
892XSY	89,25	1x3.1	1.2x3.5	2.5x2.9	19

RINGLIST



All Woessner rings can be used in cast iron, Nikasil®, boron composite® and Electrofusion bores.

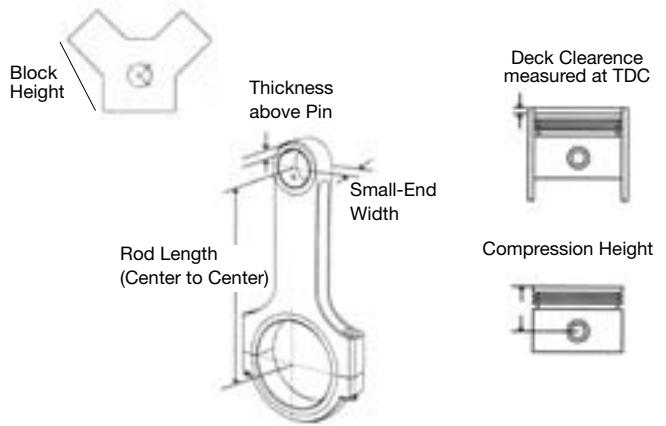
Caution: Wössner 4-stroke rings can not be used in chrome plated bores.

Ring Part No.	Fits Bore dia.	Top Ring (mm)	Second Ring (mm)	Oil-Ring (mm)	Price Code
895XSY	89,5	1x3.1	1.2x3.5	2.5x2.9	19
895XTY	89,5	1.5x3.1	1.2x3.5	2.5x2.9	19
900XSY	90	1x3.3	1.2x3.8	2.5x2.9	19
900XTY	90	1.5x3.3	1.2x3.8	2.5x2.9	19
905XSY	90,5	1x3.5	1.2x3.8	2.5x2.9	19
905XTY	90,5	1.5x3.5	1.2x3.8	2.5x2.9	19
910XSY	91	1x3.5	1.2x3.8	2.5x2.9	19
910XSU	91	1.2x3.7	1.5x3.7	2.5x2.9	19
910XTY	91	1.5x3.7	1.5x3.7	2.5x2.9	19
912XSU	91,2	1.2x3.7	1.5x3.7	2.5x2.9	19
912XTY	91,2	1.5x3.7	1.5x3.7	2.5x2.9	19
915XSY	91,5	1x3.5	1.2x3.8	2.5x2.9	19
920XSY	92	1x3.5	1.2x3.8	2.5x2.9	19
920XSU	92	1.2x3.7	1.2x3.8	2.5x2.9	19
920XTY	92	1.5x3.7	1.2x3.8	2.5x2.9	19
925XSY	92,5	1x3.3	1.2x3.8	2.5x2.9	19
925XTY	92,5	1.5x3.3	1.2x3.8	2.5x2.9	19
930XSY	93	1x3.5	1.2x3.8	2.5x2.9	19
930XTY	93	1.5x3.5	1.2x3.8	2.5x2.9	19
935XSY	93,5	1x3.5	1.2x3.8	2.5x2.9	19
940XSY	94	1x3.5	1.2x4.0	2.5x2.9	19
945XSY	94,5	1x3.5	1.2x4.2	2.5x2.9	19
950XSY	95	1x3.5	1.2x4.0	2.5x2.9	19
955XSY	95,5	1x3.5	1.2x4.0	2.5x2.9	19
955XTY	95,5	1.5x3.5	1.2x4.0	2.5x2.9	19
960XSY	96	1x3.5	1.2x4.0	2.5x2.9	19
960XTY	96	1.5x3.5	1.2x4.0	2.5x2.9	19
965XSY	96,5	1x3.5	1.2x4.0	2.8x2.9	19
970XSY	97	1x3.5	1.2x4.0	2.5x2.9	19
970XTY	97	1.5x3.5	1.2x4.0	2.5x2.9	19
975XSY	97,5	1x3.5	1.2x4.0	2.5x2.9	19
975XTY	97,5	1.5x3.5	1.2x4.0	2.5x2.9	19
980XSY	98	1x3.5	1.2x4.0	2.5x2.9	19
980XTY	98	1.5x3.5	1.2x4.0	2.5x2.9	19
990XSY	99	1x3.5	1.2x4.0	2.5x2.9	19
992XSY	99,2	1x3.5	1.2x4.0	2.5x2.9	19
995XSY	99,5	1x3.5	1.2x4.2	2.5x2.9	19
995XTY	99,5	1.5x3.5	1.2x4.2	2.5x2.9	19
1000XSY	100	1x3.5	1.2x4.0	2.5x2.9	20
1000XTY	100	1.5x3.5	1.2x4.0	2.5x2.9	20
1010XSY	101	1x3.5	1.2x4.0	2.5x2.9	20
1016XSU	101,6	1.2x3.65	1.5x4.2	2.5x2.9	20
1020XSU	102	1.2x3.65	1.5x4.2	2.5x2.9	20
1025XSU	102,5	1.2x3.65	1.5x4.2	2.5x2.9	20
1030XSU	103	1.2x3.65	1.5x4.2	2.5x2.9	20
1035XSU	103,5	1.2x3.65	1.5x4.2	2.5x2.9	20
1040XSU	104	1.2x3.65	1.5x4.2	2.5x2.9	20
1045XSU	104,5	1.2x3.65	1.5x4.2	2.5x2.9	20
1050XSU	105	1.2x3.65	1.5x4.2	2.5x2.9	20
1055XSU	105,5	1.2x3.65	1.5x4.2	2.5x2.9	20
1060XSU	106	1.2x3.65	1.5x4.2	2.5x2.9	20
1065XSU	106,5	1.2x3.65	1.5x4.2	2.5x2.9	20

Custom Piston Order Form

Fax to +49 (0) 7621 95 66 49-25

Engine Type _____
 Model _____ Year _____
 Number of Cylinders _____ Order Quantity of Pistons _____
 Displacement _____ Max RPM _____ Approx. HP _____
 Bore Size _____ Stroke _____
 Rod Length _____
 Rod Small-End Width _____
 Thickness above Pin _____
 Head Gasket Thickness _____
 Compression Ratio _____



CYLINDER HEAD

Combustion Chamber Size _____ cc's
 Valve Diameter In _____ Ex _____
 Free Drop (if known) _____
 Was cylinder head milled? Yes No
 If cylinder head was milled, how much?
 Flat _____ Angled _____

Piston Type (Circle one if known)

Dome Flat Top Dish Inverted Dome
 Conical Spherical Round 3D

Pistons designed for Circle Track Asphalt Dirt
 Drag Race Road Race Marine Street/Ship
 other (please specify) _____

Is your Motor Carbureted Injected
 Turbo Charged: Lbs. Boost _____ Blown: Lbs. Boost _____
 Nitrous – how much HP 100 250 350 400+
 other (please specify) _____
 Fuel Type Pump Gas Race Gas Alcohol Nitro

PIN SPECS

Pin Diameter _____ Length _____
 Wall Thickness _____ Qty _____
 Pins with Order Yes No
 Pin Fit Yes No

Wössner GmbH reserves the right to choose the appropriate pin length if supplying pins per each piston design.

Expedite Service 7 day + 25%

COMPANY INFORMATION

Company _____
 Contact Person _____
 Street _____
 Country _____
 Phone _____
 Fax _____
 E-Mail _____

RETURN POLICY: Custom pistons are returnable only for defects in workmanship or materials in the as received condition. Under no circumstances will parts be returnable after 90 days. Please check packaging for complete details regarding return policy. All returns require a „Return Materials Authorization“ (RMA) number, available from the Wössner GmbH sales department.



INSTRUCTIONS

SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

Piston to Cylinder Wall Clearance:

Wössner pistons are designed with a special cam and cylinder design. When measuring for piston to wall clearance, measure at widest point of piston skirt from the bottom of the oil ring groove, 90 degrees from wrist pin hole.

Coated Pistons:

Piston to wall clearance is calculated before the coating is applied to the piston skirts.

Dome Clearance:

Dome to cylinder head clearance need to be checked prior to assembly.

Valve to Piston Clearance:

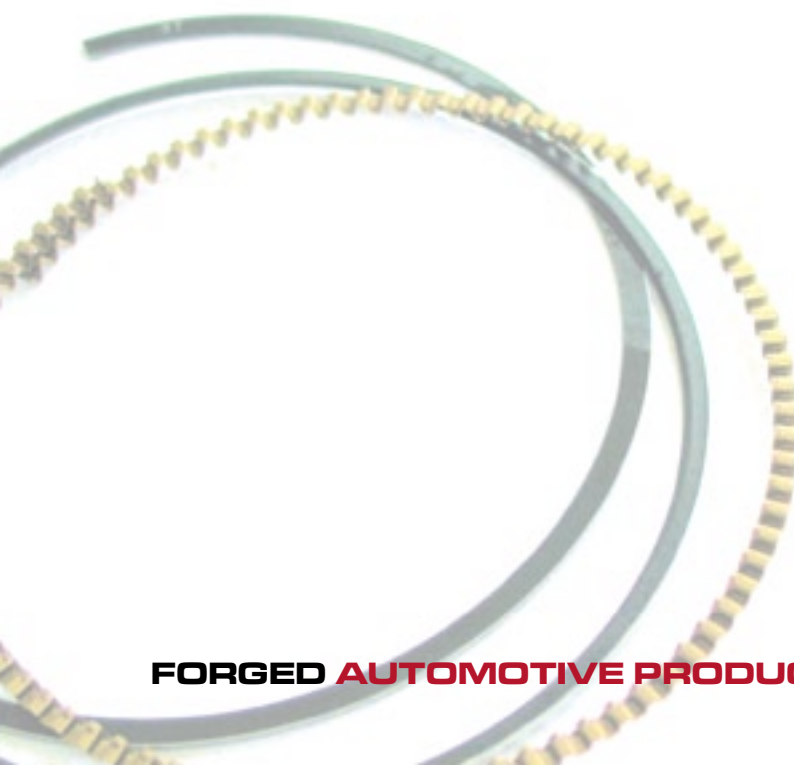
Most Wössner pistons are designed with valve pockets that are deeper and larger than OEM. These pockets provide adequate valve clearance under most conditions. It is very important that valve to piston clearance is checked upon piston installation. This is necessary due to many variations in cams, how much a block has been decked, or if the heads have been cut or angle milled.



INSTALLATION INSTRUCTIONS 4-STROKE RINGS

The rings are installed with suitable piston ring pliers, starting with the lowest ring. Excessive opening of the rings is to be avoided, since this could lead to deformation of the rings. If the rings are deformed, they are not longer able to provide a perfect seal. Rings that have the mark are to be fitted with the marking facing upwards towards the piston crown. Special care is needed for the installation of steel rail rings (3S-rings).

After the spring has been loaded, the rails are to be mounted so that rail end gaps point towards the pin hole. When the upper rail is being installed, the ends of the spring needs to be held together so as to prevent over-lapping. After this, the lower rail is to be installed. In the case of pistons with rotation prevention in the ring grooves, care need to be taken to ensure that the ring gaps are positioned alongside the location pins. After the rings have been installed, the ring gaps are to be spread evenly around the circumference (for example at 120° intervals for a 3-ring piston).



GENERAL TERMS AND CONDITIONS

of contracts with Wössner GmbH · Im Wörth 21 · 79576 Weil m Rhein/Märkt

1. General

All offers, deliveries, repairs and other services are exclusively rendered on the basis of the following conditions. The applicability of contractual partners' conflicting terms and conditions is herewith denied. Deviations from these terms and conditions have effect only if they are confirmed by us in writing. All other alterations, requested or implied, remain invalid. These Terms and Conditions supersede all previous Terms and Conditions

2. Contract-execution and Content

2.1 All offers are subject to confirmation within three weeks and are non-binding.

2.2 Subsidiary agreements, restrictions, alterations or additions to contracts must be made and accepted in writing.

3. Prices and Terms of Payment

3.1 All prices exclude postage and packing.

Offers are made based upon current costs. Should, between acceptance of an order and delivery date, an unexpected rise in costs occur, we reserve the right to raise our wholesale prices accordingly. The same applies to retail prices only when the delivery date is more than four months after the order was confirmed. An increase in price on a retail contract is restricted to three percent of the original sum.

3.2 Only written estimates will be considered to be binding. Should we not receive a contract following an estimate we reserve the right to request an appropriate fee for this service.

3.3 Payment, in Euro, is due in full within one week of the billing date.

3.4 For delivery contracts we reserve the right to request payment in advance or cash on delivery.

3.5 Payment by cheques and bills of exchange is only considered to have taken place when the clearing process is completed. Responsibility for the form and acceptance of bills of exchange remains with the drawee. Withdrawal, account and exchange fees are the responsibility of the purchaser and are immediately due.

3.6 The purchaser is only entitled to an account credit in the event of an unchallenged and legally upheld counter claim. Right of retention claims must be based upon such claims.

3.7 We reserve the right to off-set payments against outstanding debts in accordance with §§ 367 Abs. 1, 366 Abs. 2 BGB

3.8 In the event of delay or default in payment we reserve the right to charge interest at a rate of two percent above the base rate as defined by the Deutsche Bundesbank.

4. Delivery Dates and Appointments

4.1 Delivery dates and working schedules are only binding when agreed in writing.

4.2 In the event that we are unable to meet a delivery date, the customer is entitled to set a new delivery date, at least three weeks after the expiry of the original deadline. Only if this second deadline is reached without the delivery taking place is the customer entitled to withdraw from the agreement. The setting of deadlines and the withdrawal from agreements must take place in writing.

4.3 Force Majeure – events beyond our control, such as, but not restricted to, acts of God, industrial action and state intervention, that hinder us or our suppliers in the completion of our work may lead to an extension of the previously agreed delivery times. Should such events render completion of a contract impossible or the altered conditions unacceptable then either party is entitled, in writing, to withdraw from the agreement. There arises no entitlement to compensation

5. Transfer of Responsibility

5.1 We are not liable for loss or damage in transport. Responsibility passes to the customer as the goods are collected or leave our premises. If dispatch is delayed due to events beyond our control then responsibility passes to the customer with the notification of transport readiness. An insurance to cover possible damage or loss during transportation can be arranged on request. The cost of the Insurance is the responsibility of the customer.

5.2 Responsibility for goods in transit to us remains with the customer.

6. Reservation of Title – Transfer of Ownership

6.1 The finished goods remain completely the property of Wössner GmbH until such time as all outstanding balances due to us have been paid. In the case of wholesale partners this clause also applies to future balances.

6.2 If our sole ownership of the goods becomes void through amalgamation or modification, then we receive a proportional ownership of the new retained

goods based upon the value of its constituent parts.

6.3 The customer is entitled to process and sell the retained goods in the due course of his business. Any and all resulting income is payable to Wössner GmbH. Following a specific request from our customer we are willing to release them from this demand in so far as their income is more than twenty percent over our price.

7. Guarantee

7.1 Receipt of obviously faulty or incomplete goods must be immediately registered at Wössner GmbH. Notification must reach us within fourteen days of receipt of the goods. The extent of any further testing and the necessity of any further notification, in the case of trade customers, are legally governed. Any complaints concerning the goods must be forwarded in writing together with a copy of the relevant invoice.

7.2 We reserve the right to dispatch part orders in appropriate circumstances. These will be clearly marked as such and require no notification of missing components. Deviations from agreed or advertised properties of a product that either improve or do not influence its normal or planned usage are not considered to be defects. We reserve the right to make such alterations.

7.3 Our motor parts, tuning instruments and other accessories are generally delivered without TÜV testing and are only for use in specialised racing vehicles. Licensing for use on normal road vehicles is not part of any agreement.

7.4 Our guarantee is limited to repair or replacement of the delivered goods. In the event of a further problem after repair or replacement the customer may choose between an appropriate reduction in price or return of the goods and a refund. We reserve the right to two attempts to improve the original merchandise before further action is taken.

7.5 Faults directly or indirectly attributable to inappropriate handling, attempted repair, inflicted damage or other alterations to the goods carried out by the customer or a third party are not covered by our guarantee. The guarantee becomes void should the customer not follow exactly the instructions contained within the included Installation Manual.

7.6 For special constructions based upon designs provided by the customer, our guarantee is restricted to the quality of the construction work carried out. All risks relating to technical specification, function and endurance are carried by the customer.

7.7 Should we discover in the course of a complaints procedure that our guarantee is void, we reserve the right to charge the customer an appropriate fee for time and material costs.

7.8 The guarantee period is six months.

8. Liability

8.1 Except for instances of gross negligence or intentional malpractice, compensation claims arising from positive violation of claims, breach of duty prior to contract (culpa in contrahendo) and from fort are excluded in all instances except those arising from claims based faulty goods.

8.2 In cases of faulty merchandise liability is excluded for direct and consequential damage which occurs after the defect should reasonably have been identified.

8.3 Furthermore the amount of compensation for cases involving wholesale transactions is, based upon the foreseeable average damage for this nature of contract, limited to ten times the price of the article or, in the case of modifications, ten times the works costs. Instances involving exceptional risk factors must be registered pre-contract. Liability beyond the limits outlined within this contract will only be accepted if agreed in writing in advance.

8.4 Liability claims based upon a failure to follow the Installation instructions (Paragraph 7.5) or based upon damage caused as a result of an explicit customer request (Paragraph 7.6) are excluded.

9. Final Provisions

9.1 The place of fulfilment of this contract is 79576 Weil am Rhein, Germany. Insofar as the customer is a registered businessman within the bounds of the German Commercial Code, a legal entity under public law or a Special Fund under public law, the exclusive place of jurisdiction for all disputes arising directly or indirectly from the contractual relationship is 79576 Weil am Rhein. The current or usual place of residence of the plaintiff is immaterial.

9.2 German law is applicable to these General Terms and Conditions and to the entire legal relations between us and the customer. Uniform Sales Law and the United Nations Convention on Contracts for the International Sale of Goods have no jurisdiction. The German version of these terms and conditions (Allgemeine Geschäftsbedingungen) are binding in content.

9.3 In the event that a condition in these General Terms and Conditions or a Provision under the structure of other agreements is, or will become invalid, this does not affect the validity of all other conditions or agreements.

Our location in Germany



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Manufacturer of forged pistons

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